



API Solubility enhancement

The solubility of the active pharmaceutical ingredient (API) is very important because it directly impacts the drug's absorption, bioavailability, therapeutic efficacy, and manufacturability.

The rise of poorly water-soluble APIs—constituting ~90% of recent drug candidates—demands innovative solubility enhancement approaches.

ITW Reagents offers high-quality pharmaceutical excipients designed to help overcome solubility challenges and accelerate commercial success for your **BCS* Class II compounds**, particularly in **oral solid formulations**.

Below is a selection of **PanReac AppliChem** products suitable for the manufacture of amorphous solid dispersions using **spray-dried dispersion (SDD) technology**.



*BCS: Biopharmaceutical classification system

Product code	Product name	CAS no.
141007	Acetone (USP, BP, Ph. Eur.) pure, pharma grade	67-64-1
631429	Butanone (Methylethylketone) (Reag. USP, Ph. Eur.) ACS	78-93-3
131202	n-Butyl Acetate (Reag. USP, Ph. Eur.) for analysis, ACS	123-86-4
131252	Chloroform stabilized with ethanol (Reag. USP, Ph. Eur.) for analysis, ACS, ISO	67-66-3
631254	Dichloromethane dry (max. 0,005% water) stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pharma grade	75-09-2
141254	Dichloromethane stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pure, pharma grade	75-09-2
633145	N,N-Dimethylacetamide (BP, Ph. Eur.) pharma grade	127-19-5
191954	Dimethyl Sulfoxide (USP, BP, Ph. Eur.) pharma grade	67-68-5
631086	Ethanol absolute (Ph. Eur, BP, USP, JP) GMP - IPEC grade	64-17-5
191086	Ethanol absolute (USP, BP, Ph.Eur.) pharma grade	64-17-5
191318	Ethyl Acetate (BP, Ph. Eur.) pharma grade	141-78-6
141339	Glycerol (USP, BP, Ph. Eur.) pure, pharma grade	56-81-5
141091	Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade	67-56-1
141090	2-Propanol (USP-NF, BP, Ph. Eur.) pure, pharma grade	67-63-0

We offer our high-purity solvents in a wide range of pack sizes, from 25 L to 1.000 L to meet your specific volume requirements. **Returnable drums** are also available for a more sustainable and efficient supply solution. Please feel free to request further information.

Other products related with solubility enhancement:

Product code	Product name	CAS no.	Cocrystal formation	Salt formation	Nano-milling	Polymorph screening
141014	Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade	65-85-0	●	●		
A1420	L-Glutamine (DAB, USP) pure, pharma grade	56-85-9	●	●		
A1341	L-Histidine base (Ph. Eur., USP) pure, pharma grade	71-00-1	●			
144852	Phenol crystalline (USP, BP, Ph. Eur.) pure, pharma grade	108-95-2	●			
141020	Hydrochloric Acid 37% (USP-NF, BP, Ph. Eur.) pure, pharma grade	7647-01-0		●		
141032	ortho-Phosphoric Acid 85% (USP-NF, BP, Ph. Eur.) pure, pharma grade	7664-38-2		●		
142363	SDS (USP-NF, BP, Ph. Eur.) pure, pharma grade	151-21-3			●	
142312	Tween® 20 (USP-NF, BP, Ph. Eur.) pure, pharma grade	9005-64-5			●	
142050	Tween® 80 (USP-NF, BP, Ph. Eur.) pure, pharma grade	9005-65-6			●	
141008	Acetic Acid glacial (USP, BP, Ph. Eur.) pure, pharma grade	64-19-7				●
141007	Acetone (USP, BP, Ph. Eur.) pure, pharma grade	67-64-1				●
141082	1-Butanol (USP-NF) pure, pharma grade	71-36-3				●
131252	Chloroform stabilized with ethanol (Reag. USP, Ph. Eur.) for analysis, ACS, ISO	67-66-3				●
631254	Dichloromethane dry (max. 0,005% water) stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pharma grade	75-09-2				●
141254	Dichloromethane stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pure, pharma grade	75-09-2				●
191954	Dimethyl Sulfoxide (USP, BP, Ph. Eur.) pharma grade	67-68-5				●
631086	Ethanol absolute (Ph. Eur, BP, USP, JP) GMP - IPEC grade	64-17-5				●
191086	Ethanol absolute (USP, BP, Ph.Eur.) pharma grade	64-17-5				●
191318	Ethyl Acetate (BP, Ph. Eur.) pharma grade	141-78-6				●
141091	Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade	67-56-1				●
141090	2-Propanol (USP, BP, Ph. Eur.) pure, pharma grade	67-63-0				●

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