



Glycol Ethers for Intermediates

Esterification, the reaction of DOW glycol ethers with acids or anhydrides, can produce many useful products. Glycol ethers are commonly reacted with acids of lower molecular weights such as acetic acid, propionic acid, or anhydrides to produce other solvents.

If DOW glycol ethers are reacted with acids of higher molecular weight (such as stearic acid, phthalic acid, or adipic acid), plasticizers with low volatility are produced. These plasticizers are highly compatible with synthetic rubber, polyvinyl resins, and cellulose esters and ethers.

The stearate derivative of Butyl CELLOSOLVE™ is exceptionally useful as a plasticizer for synthetic rubbers, cellulose ethers, and nitrocellulose and vinyl chloride resins.

Acetyl ricinoleate, laurate, palmitate, sebacate, and oleate derivatives of the DOW glycol ethers may also be used as plasticizers.

The following are some of the major plasticizers made from DOW glycol ethers:

Di(2-butoxyethyl) phthalate (BuCs)

Di(2-(2-butoxyethyl)ethyl) adipate (BuCb)

Di(2-butoxyethyl) adipate (BuCs)

Butoxyethyl laurate (BuCs)

Phenoxyethyl laurate (EPh)

Di(2-(2-butoxyethoxy)ethyl) methane (BuCb)

2-Butoxyethyl oleate (BuCs)

Phenoxyethyl oleate (EPh)

Butoxyethyl pelargonate (BuCs)

Tri(butoxyethyl) phosphate (BuCs)

Dibutoxyethyl sebacate (BuCs)

2-Butoxyethyl stearate (BuCs)

Diphenoxyethyl diglycoate (EPh)