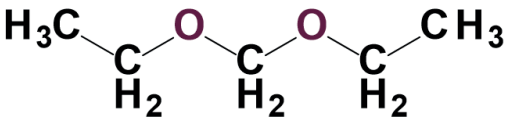
Ethylal

DESCRIPTION

CAS number	462-95-3	Molecular formula	$C_5H_{12}O_2$
EC number	207-330-6	Molecular weight	104,15
IUPAC name	(Ethoxymethoxy)ethane		
EC name	Diethoxymethane		



PROPERTIES

Boiling point (°C) at 1013 hPa			88
Flash point (°C) at 1013 hPa	DIN 51755 part 2	Closed cup	-7
Vapour pressure (kPa) at 20°C	ASTM D323 modified		6,8
Evaporation rate	ASTM D3539	Butyl acetate = 1	1,82
Relative density at 20°C	OECD 109		0,83
Surface tension (mN/m) at 25°C			21,62
Water solubility (g/L) at 20°C		Ethylal in water	70
Kinematic viscosity (mm²/s) at 25°C			0,507
Hansen Solubility parameters (MPa½)	Total δ_T		16,87
	Dispersion δ_d		15,50
	Polarity δ_p		4,36
	Hydrogen bond δ_h		5,03

FEATURES

Among all its very good characteristics, such as its solubilizing property, its medium volatility, its low viscosity and partial water miscibility, Ethylal acts as a wetting improver for water based formulas.

Chemical	% weight in water	Surface tension (mN/m)
Ethylal	0,5	51,03
Ethanol	5	55,73
Ethyl Acetate	0,5	62,08

Listed in efsa FL No 06.064

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