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## Typical Product Specifications & Properties

# Dibutyl ether

CAS Number: : 142-96-1

Specifications	Limits
Molecular weight	130.23
EINECS	205-575-3
InChI	1S/C8H18O/c1-3-5-7-9-8-6-4-2/h3-8H2,1-2H3
InChIKey	DURPTKYDGMDSBL-UHFFFAOYSA-N
BRN Number	1732752
Vapor Density	4.48
Merck	14,1569
Melting Point	-98 &deg;C
Refractive Index	1.399
Boiling Point	142-143 &deg;C
Density	0.764 g/mL at 25 &deg;C
Storage Temperature	Flammables area



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Specifications	Limits
Stability	Stable. Flammable. May form peroxides in storage. Incompatible with strong oxidizing agents.
Flash Point	77 &deg;F
Water solubility	0.03 g/100 mL (20 &deg;C)
Vapor Pressure	4.8 mm Hg ( 20 &deg;C)
Molecular weight	388.20
EINECS	215-811-7
SMILES	<chem>c1cc(c(cc1[N+](=O)[O-])Cl)NC(=O)c2cc(ccc2O)Cl.C(CO)N</chem>
InChI	XYCDHXSQODHSLG-UHFFFAOYSA-N
InChIKey	1S/C13H8Cl2N2O4.C2H7NO/c14-7-1-4-12(18)9(5-7)13(19)16-11-3-2-8(17(20)21)6-10(11)15;3-1-2-4/h1-6,18H,(H,16,19);4H,1-3H2
Stability	Stable. Hydrolyzes in concentrated acidic or basic solutions.
Water solubility	100 mg/L
Vapor Pressure	1.00E-14 mm Hg



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Specifications	Limits
Melting Point	216 &deg; C
Atmospheric OH Rate Constant	2.10E-11 cm <sup>3</sup> /molecule-sec
log P (octanol-water)	0.680
Specifications	Limits
Henry's Law Constant	4.30E-20 atm-m <sup>3</sup> /mole



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