ETHYLENE GLYCOL DIGLYCIDYL ETHER

Other names:	1,2-Bis(2,3-epoxypropoxy)ethane
	1,2-Bis(glycidyloxy)ethane
	1,2-Diglycidyloxyethane
	1,2-Ethanediol diglycidyl ether
	1,2:9,10-Diepoxy-4,7-dioxadecane
	2,2'-[ethylenebis(oxymethylene)]bisoxirane
	Diglycidylethylene glycol
	Ethane, 1,2-bis(2,3-epoxypropoxy)-
	Ethylene diglycidyl ether
	Ethylene glycol bis(2,3-epoxypropyl) ether
	Ethylene glycol bis(glycidyl ether)
	Ethylenglykoldiglycidylether
	Glycol diglycidyl ether
	NSC 54740
	Oxirane, 2,2'-[1,2-ethanediylbis(oxymethylene)]bis-
Inchi:	InChI=1S/C8H14O4/c1(9-3-7-5-11-7)2-10-4-8-6-12-8/h7-8H,1-6H2
InchiKey:	AOBIOSPNXBMOAT-UHFFFAOYSA-N
Formula:	C8H14O4
SMILES:	C(COCC1CO1)OCC1CO1
Mol. weight [g/mol]:	174.20

Physical Properties

Property code	Value	Unit	Source
hf	-544.09	kJ/mol	Cheméo Relay (1.0)
hfus	31.08	kJ/mol	Joback Method
hvap	72.72	kJ/mol	Cheméo Relay (1.0)
ie	9.59	eV	Cheméo Relay (1.0)
logp	-0.183		Crippen Method
mcvol	125.340	ml/mol	McGowan Method
tb	534.98	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	313.92	J/mol×K	494.66	Joback Method
cpg	327.95	J/mol×K	526.54	Joback Method
cpg	341.26	J/mol×K	558.42	Joback Method
cpg	353.88	J/mol×K	590.30	Joback Method
cpg	365.83	J/mol×K	622.18	Joback Method
cpg	377.15	J/mol×K	654.06	Joback Method
cpg	387.86	J/mol×K	685.94	Joback Method
dvisc	0.0018722	Pa×s	313.40	Joback Method
dvisc	0.0015255	Pa×s	343.61	Joback Method
dvisc	0.0012848	Pa×s	373.82	Joback Method
dvisc	0.0011103	Pa×s	404.03	Joback Method
dvisc	0.0009792	Pa×s	434.24	Joback Method
dvisc	0.0008777	Pa×s	464.45	Joback Method
dvisc	0.0007974	Pa×s	494.66	Joback Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2224159&Units=SI
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
tb: Normal Boiling Point Temperature