1-PROPENE, 3,3'-[1,2-ETHANEDIYLBIS(OXY)]BIS-

Other names: 1-Propene, 3,3'-[1,2-ethanediylbis(oxy)]bis-
1,2-Bis(2-propenyloxy)ethane
Diallylether ethylenglykolu
1,2-Bis(allyloxy)ethane
3,3'-[1,2-ethanediylbis(oxy)]dipropene

Inchi: InChI=1S/C8H14O2/c1-3-5-9-7-8-10-6-4-2/h3-4H,1-2,5-8H2

InchiKey: CARNFEUGBMWTON-UHFFFAOYSA-N

Formula: C8H14O2

SMILES: C=CCOCCOCC=C

Mol. weight [g/mol]: 142.20

Physical Properties

Property code	Value	Unit	Source
hfus	16.29	kJ/mol	Joback Method
ie	9.32	eV	Cheméo Relay (1.0)
logp	1.392		Crippen Method
mcvol	126.720	ml/mol	McGowan Method
tb	441.41	K	Cheméo Relay (1.0)
tc	623.56	K	Cheméo Relay (1.0)
tf	203.33	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.99	J/mol×K	420.64	Joback Method
cpg	262.32	J/mol×K	449.10	Joback Method
cpg	273.29	J/mol×K	477.56	Joback Method
cpg	283.90	J/mol×K	506.03	Joback Method
cpg	294.15	J/mol×K	534.49	Joback Method
cpg	304.04	J/mol×K	562.95	Joback Method
cpg	313.58	J/mol×K	591.41	Joback Method
dvisc	0.0023745	Pa×s	220.86	Joback Method
dvisc	0.0011809	Pa×s	254.16	Joback Method
dvisc	0.0006904	Pa×s	287.45	Joback Method

dvisc	0.0004513	Pa×s	320.75	Joback Method
dvisc	0.0003195	Pa×s	354.05	Joback Method
dvisc	0.0002401	Pa×s	387.34	Joback Method
dvisc	0.0001887	Pa×s	420.64	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C7529273&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

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

cpg: Ideal gas heat capacity

dvisc: Dynamic viscosity

hfus: Enthalpy of fusion at standard conditions

ie: Ionization energy

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume

tb: Normal Boiling Point Temperature

tc: Critical Temperature

tf: Normal melting (fusion) point