Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis-

Other names: Butane, 1,4-bis(2,3-epoxypropoxy)-
[Tetramethylenebis(oxymethylene)]dioxirane
Butanediol diglycidyl ether
Tetramethylene glycol diglycidyl ether
1,4-Bis(glycidyloxy)butane
1,4-Bis(2,3-epoxypropoxy)butane
1,4-Bis(2,3-epoxypropyloxy)butane
1,4-Butane diglycidyl ether
1,4-Butanediol diglycidyl ether
1,4-Diglycidyloxybutane
2,2'-[1,4-Butanediylbis(oxymethylene)]bis[oxirane]
1,4-Bis(oxiranylmethyloxy)butane
Araldit dy 026
Butane-1:4-diol diglycidyl ether
CD 15006 A
ChS-RR2
1,4-Diglycidloxybutane
Grilonit RV 1806
TK 10352
NSC 24834

Inchi: InChI=1S/C10H18O4/c1(3-11-5-9-7-13-9)2-4-12-6-10-8-14-10/h9-10H,1-8H2

InchiKey: SHKUUQIDMUMQQK-UHFFFAOYSA-N

Formula: C10H18O4

SMILES: C(CCOCC1CO1)COCC1CO1

Mol. weight [g/mol]: 202.25

CAS: 2425-79-8

Physical Properties

Property code	Value	Unit	Source
gf	-227.42	kJ/mol	Joback Method
hf	-632.57	kJ/mol	Joback Method
hfus	36.26	kJ/mol	Joback Method
hvap	51.52	kJ/mol	Joback Method
log10ws	-0.37		Crippen Method
logp	0.597		Crippen Method
mcvol	153.520	ml/mol	McGowan Method
pc	2576.72	kPa	Joback Method

tb	540.42	K	Joback Method
tc	727.26	K	Joback Method
tf	335.94	K	Joback Method
vc	0.588	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.68	J/mol×K	540.42	Joback Method
cpg	422.22	J/mol×K	571.56	Joback Method
cpg	436.99	J/mol×K	602.70	Joback Method
cpg	451.00	J/mol×K	633.84	Joback Method
cpg	464.30	J/mol×K	664.98	Joback Method
cpg	476.91	J/mol×K	696.12	Joback Method
cpg	488.87	J/mol×K	727.26	Joback Method
dvisc	0.0021874	Pa×s	335.94	Joback Method
dvisc	0.0017006	Pa×s	370.02	Joback Method
dvisc	0.0013794	Pa×s	404.10	Joback Method
dvisc	0.0011560	Pa×s	438.18	Joback Method
dvisc	0.0009937	Pa×s	472.26	Joback Method
dvisc	0.0008718	Pa×s	506.34	Joback Method
dvisc	0.0007776	Pa×s	540.42	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	430.70	K	1.50	NIST Webbook

Sources

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

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2425798&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume