2,2-Bis(phenyl-4-glycidoxy)propane

Inchi: InChI=1S/C21H24O4/c1-21(2,15-3-7-17(8-4-15)22-11-19-13-24-19)16-5-9-18(10-6-16)23
InchiKey: LCFVJGUPQDGYKZ-UHFFFAOYSA-N
Formula: C21H24O4
SMILES: CC(C)(c1ccc(OCC2CO2)cc1)c1ccc(OCC2CO2)cc1
Mol. weight [g/mol]: 340.41
CAS: 500008-19-5

Physical Properties

Property code	Value	Unit	Source
gf	73.60	kJ/mol	Joback Method
hf	-418.24	kJ/mol	Joback Method
hfus	44.64	kJ/mol	Joback Method
hvap	80.59	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	3.568		Crippen Method
mcvol	260.990	ml/mol	McGowan Method
pc	1772.85	kPa	Joback Method
tb	852.19	K	Joback Method
tc	1091.24	K	Joback Method
tf	313.00	K	NIST Webbook
vc	0.977	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	926.55	J/mol×K	1091.24	Joback Method
cpg	913.89	J/mol×K	1051.40	Joback Method
cpg	900.59	J/mol×K	1011.56	Joback Method
cpg	886.51	J/mol×K	971.72	Joback Method
cpg	871.51	J/mol×K	931.87	Joback Method
cpg	855.43	J/mol×K	892.03	Joback Method
cpg	838.14	J/mol×K	852.19	Joback Method
cps	485.90	J/mol×K	298.00	NIST Webbook
dvisc	0.0003552	Pa×s	800.19	Joback Method

dvisc	0.0004284	Pa×s	748.20	Joback Method
dvisc	0.0005315	Pa×s	696.20	Joback Method
dvisc	0.0006826	Pa×s	644.20	Joback Method
dvisc	0.0009162	Pa×s	592.21	Joback Method
dvisc	0.0013013	Pa×s	540.21	Joback Method
dvisc	0.0003013	Pa×s	852.19	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C500008195&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

Legend

cpg:	Ideal gas heat capacity
cps:	Solid phase 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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume