

Cyclohexane glycidate

Other names:	Cyclohexyl glycidate
Inchi:	InChI=1S/C9H14O3/c10-9(8-6-11-8)12-7-4-2-1-3-5-7/h7-8H,1-6H2
InchiKey:	KDVHPNAGHNVVPS-UHFFFAOYSA-N
Formula:	C9H14O3
SMILES:	O=C(OC1CCCCC1)C1CO1
Mol. weight [g/mol]:	170.21
CAS:	208524-95-2

Physical Properties

Property code	Value	Unit	Source
gf	-209.94	kJ/mol	Joback Method
hf	-478.77	kJ/mol	Joback Method
hfus	19.80	kJ/mol	Joback Method
hvap	49.64	kJ/mol	Joback Method
log10ws	-1.55		Crippen Method
logp	1.261		Crippen Method
mcvol	129.260	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
rinpol	1344.00		NIST Webbook
ripol	1875.00		NIST Webbook
tb	534.85	K	Joback Method
tc	758.02	K	Joback Method
tf	315.24	K	Joback Method
vc	0.474	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.90	J/molxK	534.85	Joback Method
cpg	343.35	J/molxK	572.05	Joback Method
cpg	359.71	J/molxK	609.24	Joback Method
cpg	375.00	J/molxK	646.44	Joback Method
cpg	389.29	J/molxK	683.63	Joback Method
cpg	402.59	J/molxK	720.83	Joback Method

cpg	414.97	J/molxK	758.02	Joback Method
dvisc	0.0032759	Paxs	315.24	Joback Method
dvisc	0.0020903	Paxs	351.84	Joback Method
dvisc	0.0014516	Paxs	388.44	Joback Method
dvisc	0.0010734	Paxs	425.04	Joback Method
dvisc	0.0008327	Paxs	461.65	Joback Method
dvisc	0.0006705	Paxs	498.25	Joback Method
dvisc	0.0005561	Paxs	534.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C208524952&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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