

2,3-Epoxyhexanol

Inchi:	InChI=1S/C6H12O2/c1-2-3-5-6(4-7)8-5/h5-7H,2-4H2,1H3
InchiKey:	IGRZECZSICIWJA-UHFFFAOYSA-N
Formula:	C6H12O2
SMILES:	CCCC1OC1CO
Mol. weight [g/mol]:	116.16
CAS:	90528-63-5

Physical Properties

Property code	Value	Unit	Source
gf	-170.26	kJ/mol	Joback Method
hf	-398.94	kJ/mol	Joback Method
hfus	22.57	kJ/mol	Joback Method
hvap	49.74	kJ/mol	Joback Method
log10ws	-0.80		Crippen Method
logp	0.546		Crippen Method
mcvol	96.280	ml/mol	McGowan Method
pc	3838.78	kPa	Joback Method
ripol	1421.00		NIST Webbook
ripol	1428.00		NIST Webbook
ripol	1428.00		NIST Webbook
tb	457.88	K	Joback Method
tc	631.77	K	Joback Method
tf	258.47	K	Joback Method
vc	0.367	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.90	J/molxK	457.88	Joback Method
cpg	268.48	J/molxK	602.79	Joback Method
cpg	259.86	J/molxK	573.81	Joback Method
cpg	250.81	J/molxK	544.83	Joback Method
cpg	241.32	J/molxK	515.84	Joback Method
cpg	231.35	J/molxK	486.86	Joback Method

cpg	276.69	J/mol×K	631.77	Joback Method
dvisc	0.0004198	Paxs	457.88	Joback Method
dvisc	0.0005968	Paxs	424.64	Joback Method
dvisc	0.0009008	Paxs	391.41	Joback Method
dvisc	0.0014673	Paxs	358.18	Joback Method
dvisc	0.0026412	Paxs	324.94	Joback Method
dvisc	0.0054354	Paxs	291.71	Joback Method
dvisc	0.0134670	Paxs	258.47	Joback Method

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=C90528635&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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