

(SS)- or (RR)-2,3-hexanediol

Inchi:	InChI=1S/C6H14O2/c1-3-4-6(8)5(2)7/h5-8H,3-4H2,1-2H3/t5-,6-/m0/s1
InchiKey:	QCIYAEYRVFUFAP-WDSKDSINSA-N
Formula:	C6H14O2
SMILES:	CCCC(O)C(C)O
Mol. weight [g/mol]:	118.17
CAS:	22520-19-0

Physical Properties

Property code	Value	Unit	Source
gf	-278.88	kJ/mol	Joback Method
hf	-482.19	kJ/mol	Joback Method
hfus	12.43	kJ/mol	Joback Method
hvap	61.53	kJ/mol	Joback Method
log10ws	-1.08		Crippen Method
logp	0.528		Crippen Method
mcvol	107.140	ml/mol	McGowan Method
pc	3935.71	kPa	Joback Method
tb	520.16	K	Joback Method
tc	683.21	K	Joback Method
tf	294.85 ± 0.30	K	NIST Webbook
vc	0.398	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.68	J/molxK	520.16	Joback Method
cpg	264.55	J/molxK	547.34	Joback Method
cpg	273.06	J/molxK	574.51	Joback Method
cpg	281.23	J/molxK	601.69	Joback Method
cpg	289.05	J/molxK	628.86	Joback Method
cpg	296.56	J/molxK	656.04	Joback Method
cpg	303.74	J/molxK	683.21	Joback Method
dvisc	0.6867154	Paxs	249.02	Joback Method
dvisc	0.0457867	Paxs	294.21	Joback Method

dvisc	0.0062787	Paxs	339.40	Joback Method
dvisc	0.0013734	Paxs	384.59	Joback Method
dvisc	0.0004135	Paxs	429.78	Joback Method
dvisc	0.0001565	Paxs	474.97	Joback Method
dvisc	0.0000701	Paxs	520.16	Joback Method

Sources

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=C22520190&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/39-402-2/SS-or-RR-2-3-hexanediol.pdf>

Generated by Cheméo on 2024-04-19 22:07:07.939777541 +0000 UTC m=+15853676.860354862.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.