

3-Cyclohexen-1-ol, 3-methyl-

Other names:	3-Methyl-3-cyclohexen-1-ol
Inchi:	InChI=1S/C7H12O/c1-6-3-2-4-7(8)5-6/h3,7-8H,2,4-5H2,1H3
InchiKey:	HKVFKEJBSWJQMU-UHFFFAOYSA-N
Formula:	C7H12O
SMILES:	CC1=CCCC(O)C1
Mol. weight [g/mol]:	112.17
CAS:	53783-91-8

Physical Properties

Property code	Value	Unit	Source
gf	-83.98	kJ/mol	Joback Method
hf	-239.41	kJ/mol	Joback Method
hfus	10.64	kJ/mol	Joback Method
hvap	49.24	kJ/mol	Joback Method
log10ws	-1.88		Crippen Method
logp	1.477		Crippen Method
mcvol	100.200	ml/mol	McGowan Method
pc	4046.64	kPa	Joback Method
tb	475.43	K	Joback Method
tc	671.35	K	Joback Method
tf	250.13	K	Joback Method
vc	0.365	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	215.33	J/molxK	475.43	Joback Method
cpg	227.69	J/molxK	508.08	Joback Method
cpg	239.46	J/molxK	540.74	Joback Method
cpg	250.64	J/molxK	573.39	Joback Method
cpg	261.25	J/molxK	606.04	Joback Method
cpg	271.30	J/molxK	638.70	Joback Method
cpg	280.82	J/molxK	671.35	Joback Method
dvisc	0.0292783	Paxs	250.13	Joback Method

dvisc	0.0072821	Paxs	287.68	Joback Method
dvisc	0.0024975	Paxs	325.23	Joback Method
dvisc	0.0010690	Paxs	362.78	Joback Method
dvisc	0.0005365	Paxs	400.33	Joback Method
dvisc	0.0003030	Paxs	437.88	Joback Method
dvisc	0.0001873	Paxs	475.43	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C53783918&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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