2,3-Dimethyl-5-hexen-2-ol

Inchi: InChI=1S/C8H16O/c1-5-6-7(2)8(3,4)9/h5,7,9H,1,6H2,2-4H3
InchiKey: GRCJVLMUNHFVRD-UHFFFAOYSA-N
Formula: C8H16O
SMILES: C=CCC(C)C(C)(C)O
Mol. weight [g/mol]: 128.21

Physical Properties

Property code	Value	Unit	Source
gf	-32.10	kJ/mol	Joback Method
hf	-249.28	kJ/mol	Joback Method
hfus	8.35	kJ/mol	Joback Method
hvap	47.73	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	1.969		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
ripol	1451.00		NIST Webbook
ripol	1451.00		NIST Webbook
ripol	1451.00		NIST Webbook
ripol	1451.00		NIST Webbook
tb	467.63	K	Joback Method
tc	643.35	K	Joback Method
tf	226.40	K	Joback Method
vc	0.467	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.88	J/mol×K	467.63	Joback Method
cpg	288.18	J/mol×K	496.92	Joback Method
cpg	299.85	J/mol×K	526.20	Joback Method
cpg	310.92	J/mol×K	555.49	Joback Method
cpg	321.41	J/mol×K	584.78	Joback Method
cpg	331.36	J/mol×K	614.06	Joback Method

cpg	340.78	J/mol×K	643.35	Joback Method
dvisc	0.1631928	Pa×s	226.40	Joback Method
dvisc	0.0221752	Pa×s	266.61	Joback Method
dvisc	0.0050841	Pa×s	306.81	Joback Method
dvisc	0.0016398	Pa×s	347.01	Joback Method
dvisc	0.0006690	Pa×s	387.22	Joback Method
dvisc	0.0003231	Pa×s	427.42	Joback Method
dvisc	0.0001768	Pa×s	467.63	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R302788&Units=SI

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

Latest version available from:
https://www.chemeo.com/cid/77-949-4/2-3-Dimethyl-5-hexen-2-ol.pdf
Generated by Cheméo on 2024-10-12 03:08:12.780972221 +0000 UTC m=+3283355.417941479.

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