2-Cyclohexen-1-ol, 3-methyl-6-(1-methylethyl)-, trans-

Other names: (1R,6R)-6-Isopropyl-3-methylcyclohex-2-enol, rel-
p-Menth-1-en-3-ol, trans-
trans-p-Menth-1-en-3-ol
trans-Piperitol
6-Isopropyl-3-methyl-2-cyclohexen-1-ol, (E)-
E-Piperitol
trans-3-methyl-6-(1-methylethyl)-2-cyclohexen-1-ol
2-Cyclohexen-1-ol, 3-methyl-6-(1-methylethyl)-, (1R,6R)-rel-
Piperitol, trans-
trans-Pipertiol (=trans-p-Menth-1-en-3-ol)
(E)-Piperitol acetate
trans-Piperitol (trans-p-menth-1-en-3-ol)
trans-piperitol (= trans- pmenth-1-en-3-ol)
trans-6-(isopropyl)-3-methylcyclohex-2-en-1-ol

Inchi: InChI=1S/C10H18O/c1-7(2)9-5-4-8(3)6-10(9)11/h6-7,9-11H,4-5H2,1-3H3/t9-,10+/m0/s1

InchiKey: HPOHAUWWDDPHRS-VHSXEESVSA-N

Formula: C10H18O

SMILES: CC1=CC(O)C(C(C)C)CC1

Mol. weight [g/mol]: 154.25

CAS: 16721-39-4

Physical Properties

Property code	Value	Unit	Source
gf	-68.87	kJ/mol	Joback Method
hf	-326.95	kJ/mol	Joback Method
hfus	15.96	kJ/mol	Joback Method
hvap	55.22	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.360		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
rinpol	1205.00		NIST Webbook
rinpol	1205.00		NIST Webbook
rinpol	1205.00		NIST Webbook
rinpol	1205.00		NIST Webbook
rinpol	1205.00		NIST Webbook
rinpol	1181.00		NIST Webbook

rinpol	1186.00	NIST Webbook
rinpol	1203.00	NIST Webbook
rinpol	1180.00	NIST Webbook
rinpol	1194.00	NIST Webbook
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ripol	1693.00		NIST Webbook
ripol	1689.00		NIST Webbook
ripol	1689.00		NIST Webbook
tb	538.96	K	Joback Method
tc	731.46	K	Joback Method
tf	264.70	K	Joback Method
vc	0.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	351.74	J/mol×K	538.96	Joback Method
cpg	367.50	J/mol×K	571.04	Joback Method
cpg	382.50	J/mol×K	603.13	Joback Method
cpg	396.76	J/mol×K	635.21	Joback Method
cpg	410.31	J/mol×K	667.29	Joback Method
cpg	423.14	J/mol×K	699.37	Joback Method
cpg	435.28	J/mol×K	731.46	Joback Method
dvisc	0.0240696	Pa×s	264.70	Joback Method
dvisc	0.0052446	Pa×s	310.41	Joback Method
dvisc	0.0016898	Pa×s	356.12	Joback Method
dvisc	0.0007045	Pa×s	401.83	Joback Method
dvisc	0.0003512	Pa×s	447.54	Joback Method
dvisc	0.0001992	Pa×s	493.25	Joback Method
dvisc	0.0001244	Pa×s	538.96	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=C16721394&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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