Cyclohexanemethanol, 4-(1-methylethyl)-, trans-

Other names:	p-Menthan-7-ol, trans-
	trans-p-Menthan-7-ol
	(4-Isopropylcyclohexyl)methanol, (E)-
Inchi:	InChI=1S/C10H20O/c1-8(2)10-5-3-9(7-11)4-6-10/h8-11H,3-7H2,1-2H3/t9-,10-
InchiKey:	KHWTYGFHPHRQMP-MGCOHNPYSA-N
Formula:	C10H20O
SMILES:	CC(C)C1CCC(CO)CC1
Mol. weight [g/mol]:	156.27
CAS:	13674-19-6

Physical Properties

Property code	Value	Unit	Source
gf	-89.20	kJ/mol	Joback Method
hf	-373.26	kJ/mol	Joback Method
hfus	15.13	kJ/mol	Joback Method
hvap	54.27	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	2.441		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
ripol	1819.00		NIST Webbook
ripol	1810.00		NIST Webbook
ripol	1800.00		NIST Webbook
tb	534.82	K	Joback Method
tc	724.56	K	Joback Method
tf	251.42	K	Joback Method
vc	0.540	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.68	J/mol×K	534.82	Joback Method
cpg	386.79	J/mol×K	566.44	Joback Method
cpg	403.07	J/mol×K	598.07	Joback Method

cpg	418.54	J/mol×K	629.69	Joback Method
cpg	433.23	J/mol×K	661.32	Joback Method
cpg	447.15	J/mol×K	692.94	Joback Method
cpg	460.33	J/mol×K	724.56	Joback Method
dvisc	0.0567840	Pa×s	251.42	Joback Method
dvisc	0.0092425	Pa×s	298.65	Joback Method
dvisc	0.0024699	Pa×s	345.89	Joback Method
dvisc	0.0009064	Pa×s	393.12	Joback Method
dvisc	0.0004124	Pa×s	440.35	Joback Method
dvisc	0.0002186	Pa×s	487.59	Joback Method
dvisc	0.0001296	Pa×s	534.82	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13674196&Units=SI
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

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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