

«alpha»,«alpha»,4-trimethylcyclohexene-1-methan

Other names:	p-Menth-3-en-8-ol
Inchi:	InChI=1S/C10H18O/c1-8-4-6-9(7-5-8)10(2,3)11/h6,8,11H,4-5,7H2,1-3H3
InchiKey:	HMXMWOFKFLGK-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	CC1CC=C(C(C)(C)O)CC1
Mol. weight [g/mol]:	154.25
CAS:	18479-65-7

Physical Properties

Property code	Value	Unit	Source
gf	-55.88	kJ/mol	Joback Method
hf	-310.08	kJ/mol	Joback Method
hfus	11.00	kJ/mol	Joback Method
hvap	54.62	kJ/mol	Joback Method
log10ws	-2.89		Crippen Method
logp	2.504		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2950.48	kPa	Joback Method
rinpol	1156.10		NIST Webbook
tb	540.84	K	Joback Method
tc	740.92	K	Joback Method
tf	286.36	K	Joback Method
vc	0.522	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	353.52	J/mol×K	540.84	Joback Method
cpg	369.52	J/mol×K	574.19	Joback Method
cpg	384.60	J/mol×K	607.53	Joback Method
cpg	398.78	J/mol×K	640.88	Joback Method
cpg	412.12	J/mol×K	674.23	Joback Method
cpg	424.66	J/mol×K	707.57	Joback Method
cpg	436.42	J/mol×K	740.92	Joback Method

dvisc	0.0209502	Pa×s	286.36	Joback Method
dvisc	0.0049794	Pa×s	328.77	Joback Method
dvisc	0.0016435	Pa×s	371.19	Joback Method
dvisc	0.0006809	Pa×s	413.60	Joback Method
dvisc	0.0003324	Pa×s	456.01	Joback Method
dvisc	0.0001833	Pa×s	498.43	Joback Method
dvisc	0.0001110	Pa×s	540.84	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	https://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18479657&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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