

«alpha»-Terpineol

Other names:	3-Cyclohexene-1-methanol, «alpha», «alpha»4-trimethyl- p-Menth-1-en-8-ol Terpineol schlechthin Terpineol, «alpha» «alpha»-Terpinol «alpha», «alpha», 4-Trimethyl-3-Cyclohexene-1-methanol alpha-Terpineol 2-(4-methylcyclohex-3-enyl)propan-2-ol Menth-1-en-8-ol dl-«alpha»-Terpineol 1-p-Menthen-8-ol (.+/-)-«alpha»-Terpineol 2-(4-Methyl-3-cyclohexenyl)-2-propanol 8-Hydroxy-p-menth-1-ene NSC 21449 PC 593 Terpineol 350 4-(2-Hydroxy-2-propyl)-1-methylcyclohexene Terpineol (+)-«alpha»-Terpineol 1-«alpha»-terpineol «alpha»-terpineole Terpenol «alpha»-terpinenol 2-(4-methylcyclohex-3-enyl)propan-2-ol («alpha»-terpineol)
Inchi:	InChI=1S/C10H18O/c1-8-4-6-9(7-5-8)10(2,3)11/h4,9,11H,5-7H2,1-3H3/t9-m/s1
InchiKey:	WUOACPNHFRMFPN-SECBINFHSA-N
Formula:	C10H18O
SMILES:	<chem>CC1=CCC(C(C)(C)O)CC1</chem>
Mol. weight [g/mol]:	154.25
CAS:	98-55-5

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
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tf	308.15 ± 1.00	K	NIST Webbook
tf	312.00 ± 4.00	K	NIST Webbook
vc	0.522	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	353.52	J/molxK	540.84	Joback Method
cpg	369.52	J/molxK	574.19	Joback Method
cpg	384.60	J/molxK	607.53	Joback Method
cpg	398.78	J/molxK	640.88	Joback Method
cpg	412.12	J/molxK	674.23	Joback Method
cpg	424.66	J/molxK	707.57	Joback Method
cpg	436.42	J/molxK	740.92	Joback Method
dvisc	0.0049794	Paxs	328.77	Joback Method
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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
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
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

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