GAMMA-TERPINEOL

Other names: «gamma»-Terpineol
1-methyl-4-(1-methylethylidene)cyclohexan-1-ol
Inchi: InChI=1S/C10H18O/c1-8(2)9-4-6-10(3,11)7-5-9/h11H,4-7H2,1-3H3
InchiKey: NNRLDGQZIVUQTE-UHFFFAOYSA-N
Formula: C10H18O
SMILES: CC(C)=C1CCC(C)(O)CC1
Mol. weight [g/mol]: 154.25

Physical Properties

Property code	Value	Unit	Source
hf	-238.48	kJ/mol	Cheméo Relay (1.0)
hfus	10.29	kJ/mol	Joback Method
ie	8.49	eV	Cheméo Relay (1.0)
logp	2.648		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
rinpol	1159.00		NIST Webbook
rinpol	1181.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1217.60		NIST Webbook
rinpol	1146.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1201.00		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1185.40		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1183.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1177.00		NIST Webbook
rinpol	1217.60		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1198.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1203.00		NIST Webbook

rinpol	1207.00		NIST Webbook
rinpol	1183.00		NIST Webbook
rinpol	1205.00		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1189.00		NIST Webbook
rinpol	1169.00		NIST Webbook
rinpol	1169.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1201.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1199.00		NIST Webbook
rinpol	1197.00		NIST Webbook
rinpol	1161.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1177.00		NIST Webbook
rinpol	1180.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1146.00		NIST Webbook
ripol	1683.00		NIST Webbook
ripol	1696.00		NIST Webbook
ripol	1683.00		NIST Webbook
ripol	1655.00		NIST Webbook
ripol	1683.00		NIST Webbook
ripol	1684.00		NIST Webbook
ripol	1695.00		NIST Webbook
tb	486.15	K	Cheméo Relay (1.0)
tf	313.67	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.56	J/mol×K	546.69	Joback Method
cpg	364.87	J/mol×K	580.52	Joback Method
cpg	379.30	J/mol×K	614.35	Joback Method
cpg	392.93	J/mol×K	648.18	Joback Method
cpg	405.87	J/mol×K	682.00	Joback Method

cpg	418.21	J/mol×K	715.83	Joback Method
cpg	430.06	J/mol×K	749.66	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C586812&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg: Ideal gas heat capacity
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
ie: Ionization energy
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
rinpol: Non-polar retention indices
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tf: Normal melting (fusion) point