cis-«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
InchiKey: WUOACPNHFRMFPN-UHFFFAOYSA-N
Formula: C10H18O
SMILES: CC1=CCC(C(C)(C)O)CC1
Mol. weight [g/mol]: 154.25

Physical Properties

Property code	Value	Unit	Source
hf	-240.43	kJ/mol	Cheméo Relay (1.0)
hfus	11.00	kJ/mol	Joback Method
hvap	68.20	kJ/mol	Cheméo Relay (1.0)
ie	8.62	eV	Cheméo Relay (1.0)
log10ws	-1.73		Cheméo Relay (1.0)
logp	2.504		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
rinpol	1209.00		NIST Webbook
rinpol	1198.00		NIST Webbook
rinpol	1198.00		NIST Webbook
tb	482.52	K	Cheméo Relay (1.0)
tf	298.53	K	Cheméo Relay (1.0)

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

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
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R439771&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point