

cis-p-2-Menthen-1-ol

Inchi:	InChI=1S/C10H18O/c1-10(2,3)8-4-6-9(11)7-5-8/h4,6,8-9,11H,5,7H2,1-3H3/t8-,9+/m0/s1
InchiKey:	NGXNAIZTJAUMGV-DTWKUNHWSA-N
Formula:	C10H18O
SMILES:	CC(C)(C)C1C=CC(O)CC1
Mol. weight [g/mol]:	154.25
CAS:	35376-39-7

Physical Properties

Property code	Value	Unit	Source
gf	-53.96	kJ/mol	Joback Method
hf	-318.95	kJ/mol	Joback Method
hfus	12.46	kJ/mol	Joback Method
hvap	53.65	kJ/mol	Joback Method
ie	9.33 ± 0.02	eV	NIST Webbook
log10ws	-2.65		Crippen Method
logp	2.360		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2893.62	kPa	Joback Method
rinpol	1110.00		NIST Webbook
rinpol	1110.00		NIST Webbook
rinpol	1122.00		NIST Webbook
rinpol	1121.00		NIST Webbook
rinpol	1122.00		NIST Webbook
rinpol	1117.00		NIST Webbook
rinpol	1117.00		NIST Webbook
rinpol	1101.00		NIST Webbook
rinpol	1120.00		NIST Webbook
rinpol	1110.00		NIST Webbook
rinpol	1106.00		NIST Webbook
ripol	1541.00		NIST Webbook
ripol	1541.00		NIST Webbook
tb	531.19	K	Joback Method
tc	730.01	K	Joback Method
tf	269.60	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.11	J/molxK	531.19	Joback Method
cpg	370.85	J/molxK	564.33	Joback Method
cpg	386.64	J/molxK	597.46	Joback Method
cpg	401.50	J/molxK	630.60	Joback Method
cpg	415.47	J/molxK	663.74	Joback Method
cpg	428.59	J/molxK	696.88	Joback Method
cpg	440.90	J/molxK	730.01	Joback Method
dvisc	0.0312164	Paxs	269.60	Joback Method
dvisc	0.0066563	Paxs	313.20	Joback Method
dvisc	0.0020706	Paxs	356.80	Joback Method
dvisc	0.0008306	Paxs	400.40	Joback Method
dvisc	0.0003987	Paxs	443.99	Joback Method
dvisc	0.0002182	Paxs	487.59	Joback Method
dvisc	0.0001318	Paxs	531.19	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C35376397&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
ie:	Ionization energy
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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