p-Menth-2-en-7-ol, trans-

Other names: (4-Isopropyl-2-cyclohexen-1-yl)methanol, trans-
Inchi: InChI=1S/C10H18O/c1-8(2)10-5-3-9(7-11)4-6-10/h3,5,8-11H,4,6-7H2,1-2H3/t9-,10-/m1/s
InchiKey: JWRJGMUBDGIGRT-NXEZZACHSA-N
Formula: C10H18O
SMILES: CC(C)C1C=CC(CO)CC1
Mol. weight [g/mol]: 154.25
CAS: 19898-87-4

Physical Properties

Property code	Value	Unit	Source
gf	-59.24	kJ/mol	Joback Method
hf	-315.48	kJ/mol	Joback Method
hfus	16.35	kJ/mol	Joback Method
hvap	54.56	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	2.217		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2859.68	kPa	Joback Method
rinpol	1268.00		NIST Webbook
rinpol	1254.00		NIST Webbook
ripol	1856.00		NIST Webbook
ripol	1842.00		NIST Webbook
ripol	1842.00		NIST Webbook
ripol	1849.00		NIST Webbook
tb	533.98	K	Joback Method
tc	725.42	K	Joback Method
tf	252.18	K	Joback Method
vc	0.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.36	J/mol×K	533.98	Joback Method
cpg	423.86	J/mol×K	693.52	Joback Method

cpg	410.88	J/mol×K	661.61	Joback Method
cpg	397.16	J/mol×K	629.70	Joback Method
cpg	382.68	J/mol×K	597.79	Joback Method
cpg	367.42	J/mol×K	565.89	Joback Method
cpg	436.13	J/mol×K	725.42	Joback Method
dvisc	0.0001307	Pa×s	533.98	Joback Method
dvisc	0.0002163	Pa×s	487.01	Joback Method
dvisc	0.0003986	Pa×s	440.05	Joback Method
dvisc	0.0008503	Pa×s	393.08	Joback Method
dvisc	0.0022279	Pa×s	346.11	Joback Method
dvisc	0.0078994	Pa×s	299.15	Joback Method
dvisc	0.0448779	Pa×s	252.18	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C19898874&Units=SI

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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point

vc: Critical Volume