

p-menthen-9-al

Inchi:	InChI=1S/C10H18O/c1-8-3-5-10(6-4-8)9(2)7-11/h7-10H,3-6H2,1-2H3
InchiKey:	IHFVXSDTDIXNPU-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	CC1CCC(C(C)C=O)CC1
Mol. weight [g/mol]:	154.25

Physical Properties

Property code	Value	Unit	Source
gf	-51.90	kJ/mol	Joback Method
hf	-306.61	kJ/mol	Joback Method
hfus	13.33	kJ/mol	Joback Method
hvap	44.31	kJ/mol	Joback Method
log10ws	-2.46		Crippen Method
logp	2.648		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2701.41	kPa	Joback Method
ripol	1600.00		NIST Webbook
tb	491.30	K	Joback Method
tc	697.69	K	Joback Method
tf	232.60	K	Joback Method
vc	0.538	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	329.25	J/molxK	491.30	Joback Method
cpg	348.03	J/molxK	525.70	Joback Method
cpg	365.85	J/molxK	560.10	Joback Method
cpg	382.72	J/molxK	594.50	Joback Method
cpg	398.69	J/molxK	628.89	Joback Method
cpg	413.75	J/molxK	663.29	Joback Method
cpg	427.94	J/molxK	697.69	Joback Method
dvisc	0.0069123	Paxs	232.60	Joback Method
dvisc	0.0027720	Paxs	275.72	Joback Method

dvisc	0.0014233	Paxs	318.83	Joback Method
dvisc	0.0008566	Paxs	361.95	Joback Method
dvisc	0.0005744	Paxs	405.07	Joback Method
dvisc	0.0004159	Paxs	448.18	Joback Method
dvisc	0.0003187	Paxs	491.30	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R317750&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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