

m-1,3-Menthadien-8-ol

Inchi:	InChI=1S/C10H16O/c1-8-5-4-6-9(7-8)10(2,3)11/h6-7,11H,4-5H2,1-3H3
InchiKey:	BNSLLZJQDWEUFB-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	CC1=CC(C(C)(C)O)=CCC1
Mol. weight [g/mol]:	152.23

Physical Properties

Property code	Value	Unit	Source
gf	-27.84	kJ/mol	Joback Method
hf	-243.43	kJ/mol	Joback Method
hfus	10.76	kJ/mol	Joback Method
hvap	55.88	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	2.424		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	3131.49	kPa	Joback Method
ripol	1158.00		NIST Webbook
ripol	1158.00		NIST Webbook
ripol	1710.00		NIST Webbook
ripol	1710.00		NIST Webbook
tb	549.65	K	Joback Method
tc	752.81	K	Joback Method
tf	303.88	K	Joback Method
vc	0.509	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.67	J/molxK	549.65	Joback Method
cpg	347.82	J/molxK	583.51	Joback Method
cpg	361.11	J/molxK	617.37	Joback Method
cpg	373.59	J/molxK	651.23	Joback Method
cpg	385.30	J/molxK	685.09	Joback Method
cpg	396.29	J/molxK	718.95	Joback Method

cpg	406.59	J/mol×K	752.81	Joback Method
dvisc	0.0118833	Paxs	303.88	Joback Method
dvisc	0.0032840	Paxs	344.84	Joback Method
dvisc	0.0011925	Paxs	385.80	Joback Method
dvisc	0.0005260	Paxs	426.76	Joback Method
dvisc	0.0002678	Paxs	467.73	Joback Method
dvisc	0.0001520	Paxs	508.69	Joback Method
dvisc	0.0000939	Paxs	549.65	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R545801&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
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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