

Verbenene

Inchi:	InChI=1S/C10H14/c1-7-4-5-8-6-9(7)10(8,2)3/h4-5,8-9H,1,6H2,2-3H3/t8-,9-/m1/s1
InchiKey:	YOQFOABVDRBYCG-RKDXNWHRSA-N
Formula:	C10H14
SMILES:	C=C1C=CC2CC1C2(C)C
Mol. weight [g/mol]:	134.22
CAS:	4080-46-0

Physical Properties

Property code	Value	Unit	Source
gf	212.56	kJ/mol	Joback Method
hf	26.63	kJ/mol	Joback Method
hfus	10.66	kJ/mol	Joback Method
hvap	36.84	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.775		Crippen Method
mcvol	121.440	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
rinpol	967.00		NIST Webbook
rinpol	972.20		NIST Webbook
rinpol	951.00		NIST Webbook
rinpol	967.00		NIST Webbook
rinpol	935.00		NIST Webbook
rinpol	954.00		NIST Webbook
rinpol	967.00		NIST Webbook
rinpol	968.00		NIST Webbook
rinpol	967.00		NIST Webbook
rinpol	945.00		NIST Webbook
rinpol	948.00		NIST Webbook
rinpol	968.00		NIST Webbook
rinpol	969.00		NIST Webbook
rinpol	966.00		NIST Webbook
rinpol	942.00		NIST Webbook
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ripol	1131.00		NIST Webbook
ripol	1119.00		NIST Webbook
ripol	1120.00		NIST Webbook
ripol	1127.00		NIST Webbook
ripol	1131.00		NIST Webbook
ripol	1123.00		NIST Webbook
ripol	1119.00		NIST Webbook
ripol	1126.00		NIST Webbook
tb	439.84	K	Joback Method
tc	649.54	K	Joback Method
tf	268.92	K	Joback Method
vc	0.469	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.21	J/mol×K	439.84	Joback Method
cpg	275.30	J/mol×K	474.79	Joback Method
cpg	291.05	J/mol×K	509.74	Joback Method
cpg	305.61	J/mol×K	544.69	Joback Method
cpg	319.11	J/mol×K	579.64	Joback Method
cpg	331.68	J/mol×K	614.59	Joback Method
cpg	343.46	J/mol×K	649.54	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4080460&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

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	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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