

Di-epi-«alpha»-cedrene

Other names:	«alpha»-Funebrene
Inchi:	InChI=1S/C15H24/c1-10-7-8-15-9-12(10)14(3,4)13(15)6-5-11(15)2/h7,11-13H,5-6,8-9H2
InchiKey:	IRAQOCYXUMOF CW-UHFFFAOYSA-N
Formula:	C15H24
SMILES:	CC1=CCC23CC1C(C)(C)C2CCC3C
Mol. weight [g/mol]:	204.35
CAS:	50894-66-1

Physical Properties

Property code	Value	Unit	Source
gf	227.40	kJ/mol	Joback Method
hf	-110.74	kJ/mol	Joback Method
hfus	15.19	kJ/mol	Joback Method
hvap	47.10	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	4.415		Crippen Method
mcvol	185.330	ml/mol	McGowan Method
pc	2117.78	kPa	Joback Method
rinpol	1387.00		NIST Webbook
rinpol	1399.00		NIST Webbook
rinpol	1375.00		NIST Webbook
rinpol	1382.00		NIST Webbook
rinpol	1383.00		NIST Webbook
rinpol	1398.00		NIST Webbook
rinpol	1385.00		NIST Webbook
rinpol	1383.00		NIST Webbook
rinpol	1427.00		NIST Webbook
rinpol	1394.00		NIST Webbook
rinpol	1387.00		NIST Webbook
rinpol	1385.00		NIST Webbook
rinpol	1400.00		NIST Webbook
rinpol	1405.00		NIST Webbook
ripol	1501.00		NIST Webbook
ripol	1501.00		NIST Webbook
ripol	1587.00		NIST Webbook
ripol	1503.00		NIST Webbook
tb	566.64	K	Joback Method

tc	792.17	K	Joback Method
tf	358.19	K	Joback Method
vc	0.711	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.55	J/mol×K	566.64	Joback Method
cpg	526.55	J/mol×K	604.23	Joback Method
cpg	547.97	J/mol×K	641.82	Joback Method
cpg	568.10	J/mol×K	679.41	Joback Method
cpg	587.25	J/mol×K	716.99	Joback Method
cpg	605.70	J/mol×K	754.58	Joback Method
cpg	623.74	J/mol×K	792.17	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=C50894661&Units=SI

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
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	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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