

4«alpha»H,5«alpha»H-Eudesmane

Inchi:	InChI=1S/C15H28/c1-11(2)13-7-9-15(4)8-5-6-12(3)14(15)10-13/h11-14H,5-10H2,1-4H3/
InchiKey:	DYEQPYSFRWUNNV-AKRBKJB TSA-N
Formula:	C15H28
SMILES:	CC(C)C1CCC2(C)CCCC(C)C2C1
Mol. weight [g/mol]:	208.38

Physical Properties

Property code	Value	Unit	Source
gf	125.17	kJ/mol	Joback Method
hf	-262.69	kJ/mol	Joback Method
hfus	14.80	kJ/mol	Joback Method
hvap	47.34	kJ/mol	Joback Method
log10ws	-4.68		Crippen Method
logp	4.885		Crippen Method
mcvol	200.490	ml/mol	McGowan Method
pc	1872.41	kPa	Joback Method
rinpol	1495.00		NIST Webbook
rinpol	1495.00		NIST Webbook
rinpol	1497.00		NIST Webbook
rinpol	1497.00		NIST Webbook
rinpol	1498.00		NIST Webbook
rinpol	1497.00		NIST Webbook
ripol	1636.00		NIST Webbook
ripol	1635.00		NIST Webbook
ripol	1632.00		NIST Webbook
tb	563.62	K	Joback Method
tc	781.30	K	Joback Method
tf	281.03	K	Joback Method
vc	0.748	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	539.93	J/mol×K	563.62	Joback Method

cpg	566.03	J/mol×K	599.90	Joback Method
cpg	590.56	J/mol×K	636.18	Joback Method
cpg	613.67	J/mol×K	672.46	Joback Method
cpg	635.49	J/mol×K	708.74	Joback Method
cpg	656.17	J/mol×K	745.02	Joback Method
cpg	675.83	J/mol×K	781.30	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=R306408&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	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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