

1a«alpha»,7«alpha»,7a«alpha»,7b«alpha»-1H-Cyclopent-1a,2,3,5,6,7,7a,7b-octahydro-1,1,7,7a-tetramethyl

InChI: InChI=1/C15H24/c1-10/6-5-7-11-8-9-12-13(14(12,27))15(10,11)/4/h7,10,12-13H,5-6,8-9H,1H
InChIKey: MBIPADCEHSKJDQ-QMPICLIWSA-N

Formula: C15H24
SMILES: CC1CCC=C2CCC3C(C3(C)C)C21C
Mol. weight [g/mol]: 204.35

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
ripol	1729.00		NIST Webbook
tb	566.64	K	Joback Method
tc	792.17	K	Joback Method
tf	358.19	K	Joback Method
vc	0.711	m3/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/ci990307I
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=R643688&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:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/74-998-3/1a-alpha-7-alpha-7a-alpha-7b-alpha-1H-Cyclopropa-a-naphthalene-1a-2-3-5->

Generated by Cheméo on 2025-12-05 09:19:17.729997914 +0000 UTC m=+4674555.260038568.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.