

2,4-Pentadecadione

Inchi:	InChI=1S/C15H28O2/c1-3-4-5-6-7-8-9-10-11-12-15(17)13-14(2)16/h3-13H2,1-2H3
InchiKey:	HVINKLZTQUQDJO-UHFFFAOYSA-N
Formula:	C15H28O2
SMILES:	CCCCCCCCCCCC(=O)CC(C)=O
Mol. weight [g/mol]:	240.38

Physical Properties

Property code	Value	Unit	Source
gf	-182.42	kJ/mol	Joback Method
hf	-578.09	kJ/mol	Joback Method
hfus	37.80	kJ/mol	Joback Method
hvap	62.48	kJ/mol	Joback Method
log10ws	-4.66		Crippen Method
logp	4.455		Crippen Method
mvol	225.350	ml/mol	McGowan Method
pc	1559.81	kPa	Joback Method
rinpol	1766.00		NIST Webbook
rinpol	1766.00		NIST Webbook
tb	650.34	K	Joback Method
tc	825.55	K	Joback Method
tf	358.67	K	Joback Method
vc	0.887	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	618.59	J/molxK	650.34	Joback Method
cpg	635.15	J/molxK	679.54	Joback Method
cpg	650.94	J/molxK	708.74	Joback Method
cpg	665.98	J/molxK	737.94	Joback Method
cpg	680.30	J/molxK	767.14	Joback Method
cpg	693.92	J/molxK	796.34	Joback Method
cpg	706.85	J/molxK	825.55	Joback Method
dvisc	0.0028213	Paxs	358.67	Joback Method

dvisc	0.0013499	Paxs	407.28	Joback Method
dvisc	0.0007558	Paxs	455.89	Joback Method
dvisc	0.0004733	Paxs	504.50	Joback Method
dvisc	0.0003217	Paxs	553.12	Joback Method
dvisc	0.0002328	Paxs	601.73	Joback Method
dvisc	0.0001768	Paxs	650.34	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R83916&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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