

Heptadecane-2,4-dione

Other names:	2,4-Heptadecadione
Inchi:	InChI=1S/C17H32O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-17(19)15-16(2)18/h3-15H2,1-2H3
InchiKey:	VZRNDOSIHXJXCH-UHFFFAOYSA-N
Formula:	C17H32O2
SMILES:	CCCCCCCCCCCCC(=O)CC(C)=O
Mol. weight [g/mol]:	268.43
CAS:	64042-18-8

Physical Properties

Property code	Value	Unit	Source
gf	-165.58	kJ/mol	Joback Method
hf	-619.37	kJ/mol	Joback Method
hfus	42.98	kJ/mol	Joback Method
hvap	66.93	kJ/mol	Joback Method
log10ws	-5.50		Crippen Method
logp	5.236		Crippen Method
mcvol	253.530	ml/mol	McGowan Method
pc	1347.68	kPa	Joback Method
rinpol	1874.00		NIST Webbook
rinpol	1874.00		NIST Webbook
tb	696.10	K	Joback Method
tc	870.97	K	Joback Method
tf	381.21	K	Joback Method
vc	1.000	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	729.94	J/molxK	696.10	Joback Method
cpg	809.00	J/molxK	841.83	Joback Method
cpg	794.74	J/molxK	812.68	Joback Method
cpg	779.73	J/molxK	783.54	Joback Method
cpg	763.95	J/molxK	754.39	Joback Method
cpg	747.36	J/molxK	725.25	Joback Method

cpg	822.54	J/mol×K	870.97	Joback Method
dvisc	0.0001389	Paxs	696.10	Joback Method
dvisc	0.0001841	Paxs	643.62	Joback Method
dvisc	0.0002565	Paxs	591.14	Joback Method
dvisc	0.0003812	Paxs	538.65	Joback Method
dvisc	0.0006170	Paxs	486.17	Joback Method
dvisc	0.0011224	Paxs	433.69	Joback Method
dvisc	0.0024071	Paxs	381.21	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C64042188&Units=SI

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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