

Nonadecane-4,6-dione

Inchi:	InChI=1S/C19H36O2/c1-3-5-6-7-8-9-10-11-12-13-14-16-19(21)17-18(20)15-4-2/h3-17H2
InchiKey:	ASSQAPAKOQZNJP-UHFFFAOYSA-N
Formula:	C19H36O2
SMILES:	CCCCCCCCCCCCC(=O)CC(=O)CCC
Mol. weight [g/mol]:	296.49
CAS:	289681-80-7

Physical Properties

Property code	Value	Unit	Source
gf	-148.74	kJ/mol	Joback Method
hf	-660.65	kJ/mol	Joback Method
hfus	48.16	kJ/mol	Joback Method
hvap	71.38	kJ/mol	Joback Method
log10ws	-6.34		Crippen Method
logp	6.016		Crippen Method
mcvol	281.710	ml/mol	McGowan Method
pc	1176.05	kPa	Joback Method
rinpol	2166.40		NIST Webbook
rinpol	2166.40		NIST Webbook
tb	741.86	K	Joback Method
tc	918.35	K	Joback Method
tf	403.75	K	Joback Method
vc	1.111	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	845.89	J/mol×K	741.86	Joback Method
cpg	864.11	J/mol×K	771.27	Joback Method
cpg	881.44	J/mol×K	800.69	Joback Method
cpg	897.90	J/mol×K	830.10	Joback Method
cpg	913.53	J/mol×K	859.52	Joback Method
cpg	928.35	J/mol×K	888.93	Joback Method
cpg	942.40	J/mol×K	918.35	Joback Method

dvisc	0.0020022	Paxs	403.75	Joback Method
dvisc	0.0009121	Paxs	460.10	Joback Method
dvisc	0.0004933	Paxs	516.45	Joback Method
dvisc	0.0003011	Paxs	572.81	Joback Method
dvisc	0.0002008	Paxs	629.16	Joback Method
dvisc	0.0001431	Paxs	685.51	Joback Method
dvisc	0.0001074	Paxs	741.86	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C289681807&Units=SI
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

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
mvol:	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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