

Hexacosane-7,9-dione

Inchi:	InChI=1S/C26H50O2/c1-3-5-7-9-10-11-12-13-14-15-16-17-18-19-21-23-26(28)24-25(27)
InchiKey:	SIZILKRQLSAJRX-UHFFFAOYSA-N
Formula:	C26H50O2
SMILES:	CCCCCCCCCCCCCCCCC(=O)CC(=O)CCCCC
Mol. weight [g/mol]:	394.67
CAS:	60462-05-7

Physical Properties

Property code	Value	Unit	Source
gf	-89.80	kJ/mol	Joback Method
hf	-805.13	kJ/mol	Joback Method
hfus	66.29	kJ/mol	Joback Method
hvap	86.96	kJ/mol	Joback Method
log10ws	-9.27		Crippen Method
logp	8.747		Crippen Method
mcvol	380.340	ml/mol	McGowan Method
pc	776.77	kPa	Joback Method
rinpol	2885.40		NIST Webbook
rinpol	2885.40		NIST Webbook
tb	902.02	K	Joback Method
tc	1106.23	K	Joback Method
tf	482.64	K	Joback Method
vc	1.504	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1279.48	J/mol×K	902.02	Joback Method
cpg	1301.28	J/mol×K	936.06	Joback Method
cpg	1321.76	J/mol×K	970.09	Joback Method
cpg	1341.00	J/mol×K	1004.13	Joback Method
cpg	1359.06	J/mol×K	1038.16	Joback Method
cpg	1376.00	J/mol×K	1072.20	Joback Method
cpg	1391.90	J/mol×K	1106.23	Joback Method

dvisc	0.0009082	Paxs	482.64	Joback Method
dvisc	0.0003874	Paxs	552.54	Joback Method
dvisc	0.0002001	Paxs	622.43	Joback Method
dvisc	0.0001181	Paxs	692.33	Joback Method
dvisc	0.0000768	Paxs	762.23	Joback Method
dvisc	0.0000536	Paxs	832.12	Joback Method
dvisc	0.0000396	Paxs	902.02	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=C60462057&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
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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