

Tetracosane-7,9-dione

Inchi:	InChI=1S/C24H46O2/c1-3-5-7-9-10-11-12-13-14-15-16-17-19-21-24(26)22-23(25)20-18-
InchiKey:	SXOSMRIOGCFODN-UHFFFAOYSA-N
Formula:	C24H46O2
SMILES:	CCCCCCCCCCCCCCCC(=O)CC(=O)CCCCC
Mol. weight [g/mol]:	366.62
CAS:	95605-24-6

Physical Properties

Property code	Value	Unit	Source
gf	-106.64	kJ/mol	Joback Method
hf	-763.85	kJ/mol	Joback Method
hfus	61.11	kJ/mol	Joback Method
hvap	82.51	kJ/mol	Joback Method
log10ws	-8.43		Crippen Method
logp	7.966		Crippen Method
mcvol	352.160	ml/mol	McGowan Method
pc	867.09	kPa	Joback Method
rinpol	2690.50		NIST Webbook
rinpol	2690.50		NIST Webbook
tb	856.26	K	Joback Method
tc	1048.30	K	Joback Method
tf	460.10	K	Joback Method
vc	1.391	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1151.95	J/molxK	856.26	Joback Method
cpg	1243.70	J/molxK	1016.30	Joback Method
cpg	1227.45	J/molxK	984.29	Joback Method
cpg	1210.20	J/molxK	952.28	Joback Method
cpg	1191.90	J/molxK	920.27	Joback Method
cpg	1172.50	J/molxK	888.27	Joback Method
cpg	1259.01	J/molxK	1048.30	Joback Method

dvisc	0.0000533	Paxs	856.26	Joback Method
dvisc	0.0000719	Paxs	790.23	Joback Method
dvisc	0.0001024	Paxs	724.21	Joback Method
dvisc	0.0001565	Paxs	658.18	Joback Method
dvisc	0.0002629	Paxs	592.15	Joback Method
dvisc	0.0005032	Paxs	526.13	Joback Method
dvisc	0.0011602	Paxs	460.10	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C95605246&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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