

hexacosanal

Inchi: InChI=1S/C26H52O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-
InchiKey: QAXXQMIHMLTJQI-UHFFFAOYSA-N
Formula: C26H52O
SMILES: CCCCCCCCCCCCCCCCCCCCCCCCCC=O
Mol. weight [g/mol]: 380.69
CAS: 26627-85-0

Physical Properties

Property code	Value	Unit	Source
gf	68.52	kJ/mol	Joback Method
hf	-665.55	kJ/mol	Joback Method
hfus	65.39	kJ/mol	Joback Method
hvap	80.19	kJ/mol	Joback Method
log10ws	-9.99		Crippen Method
logp	9.568		Crippen Method
mcvol	378.770	ml/mol	McGowan Method
pc	754.74	kPa	Joback Method
rinpol	2815.00		NIST Webbook
rinpol	2830.00		NIST Webbook
rinpol	2833.50		NIST Webbook
tb	842.94	K	Joback Method
tc	1032.67	K	Joback Method
tf	424.78	K	Joback Method
vc	1.508	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1248.68	J/molxK	842.94	Joback Method
cpg	1352.07	J/molxK	1001.05	Joback Method
cpg	1333.59	J/molxK	969.43	Joback Method
cpg	1314.07	J/molxK	937.80	Joback Method
cpg	1293.45	J/molxK	906.18	Joback Method
cpg	1271.67	J/molxK	874.56	Joback Method

cpg	1369.56	J/mol×K	1032.67	Joback Method
dvisc	0.0000469	Paxs	842.94	Joback Method
dvisc	0.0000643	Paxs	773.25	Joback Method
dvisc	0.0000939	Paxs	703.55	Joback Method
dvisc	0.0001489	Paxs	633.86	Joback Method
dvisc	0.0002647	Paxs	564.17	Joback Method
dvisc	0.0005533	Paxs	494.47	Joback Method
dvisc	0.0014732	Paxs	424.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C26627850&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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