

6,9-Tetracosadiene

Inchi:	InChI=1S/C24H46/c1-3-5-7-9-11-13-15-17-19-21-23-24-22-20-18-16-14-12-10-8-6-4-2/h
InchiKey:	UEOQNWQTSXQXMT-GRAPOSQESA-N
Formula:	C24H46
SMILES:	CCCCC=CCC=CCCCCCCCCCCCCCC
Mol. weight [g/mol]:	334.62

Physical Properties

Property code	Value	Unit	Source
gf	311.64	kJ/mol	Joback Method
hf	-304.25	kJ/mol	Joback Method
hfus	58.32	kJ/mol	Joback Method
hvap	68.93	kJ/mol	Joback Method
log10ws	-9.58		Crippen Method
logp	9.160		Crippen Method
mcvol	340.420	ml/mol	McGowan Method
pc	855.96	kPa	Joback Method
rinpol	2351.00		NIST Webbook
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tb	756.84	K	Joback Method
tc	931.04	K	Joback Method
tf	350.08	K	Joback Method
vc	1.339	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1041.31	J/molxK	756.84	Joback Method
cpg	1063.00	J/molxK	785.87	Joback Method
cpg	1083.71	J/molxK	814.91	Joback Method
cpg	1103.50	J/molxK	843.94	Joback Method
cpg	1122.42	J/molxK	872.97	Joback Method
cpg	1140.52	J/molxK	902.00	Joback Method
cpg	1157.87	J/molxK	931.04	Joback Method
dvisc	0.0020897	Paxs	350.08	Joback Method

dvisc	0.0006492	Paxs	417.87	Joback Method
dvisc	0.0002795	Paxs	485.67	Joback Method
dvisc	0.0001479	Paxs	553.46	Joback Method
dvisc	0.0000900	Paxs	621.25	Joback Method
dvisc	0.0000603	Paxs	689.05	Joback Method
dvisc	0.0000435	Paxs	756.84	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R406929&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

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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