

9-Tetracosene

Inchi:

InChI=1S/C24H48/c1-3-5-7-9-11-13-15-17-19-21-23-24-22-20-18-16-14-12-10-8-6-4-2/h1-24H

InchiKey:

TUICHZLZOYQXJO-HTXNQAPBSA-N

Formula:

C24H48

SMILES:

CCCCCCCCC=CCCCCCCCCCCCCCCC

Mol. weight [g/mol]:

336.64

Physical Properties

Property code	Value	Unit	Source
gf	231.42	kJ/mol	Joback Method
hf	-421.47	kJ/mol	Joback Method
hfus	58.12	kJ/mol	Joback Method
hvap	68.98	kJ/mol	Joback Method
log10ws	-9.72		Crippen Method
logp	9.384		Crippen Method
mcvol	344.720	ml/mol	McGowan Method
pc	830.50	kPa	Joback Method
rinpol	2371.99		NIST Webbook
rinpol	2378.00		NIST Webbook
rinpol	2378.00		NIST Webbook
tb	752.68	K	Joback Method
tc	924.38	K	Joback Method
tf	355.16	K	Joback Method
vc	1.359	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1064.51	J/mol×K	752.68	Joback Method
cpg	1086.75	J/mol×K	781.30	Joback Method
cpg	1107.98	J/mol×K	809.91	Joback Method
cpg	1128.26	J/mol×K	838.53	Joback Method
cpg	1147.63	J/mol×K	867.15	Joback Method
cpg	1166.13	J/mol×K	895.76	Joback Method
cpg	1183.81	J/mol×K	924.38	Joback Method

dvisc	0.0022097	Pa×s	355.16	Joback Method
dvisc	0.0007158	Pa×s	421.41	Joback Method
dvisc	0.0003149	Pa×s	487.67	Joback Method
dvisc	0.0001686	Pa×s	553.92	Joback Method
dvisc	0.0001032	Pa×s	620.17	Joback Method
dvisc	0.0000694	Pa×s	686.43	Joback Method
dvisc	0.0000501	Pa×s	752.68	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R282154&Units=SI
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

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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