

16-Tetracosene, 27-methyl

Inchi: InChI=1S/C41H82/c1-4-6-8-10-12-14-16-17-18-19-20-21-22-23-24-25-26-27-28-30-32-34
InchiKey: WHNZMZTVBNFGPH-OCOZRVBESA-N
Formula: C41H82
SMILES: CCCCCCCCCCCCCC=CCCCCCCCCCC(C)CCCCCCCCCCCCCC
Mol. weight [g/mol]: 575.09

Physical Properties

Property code	Value	Unit	Source
gf	372.12	kJ/mol	Joback Method
hf	-777.63	kJ/mol	Joback Method
hfus	98.62	kJ/mol	Joback Method
hvap	106.43	kJ/mol	Joback Method
log10ws	-16.60		Crippen Method
logp	15.872		Crippen Method
mvol	584.250	ml/mol	McGowan Method
pc	385.37	kPa	Joback Method
rinpol	3997.00		NIST Webbook
rinpol	3997.00		NIST Webbook
tb	1141.20	K	Joback Method
tc	1526.95	K	Joback Method
tf	531.75	K	Joback Method
vc	2.305	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2219.84	J/molxK	1141.20	Joback Method
cpg	2421.91	J/molxK	1462.66	Joback Method
cpg	2384.77	J/molxK	1398.36	Joback Method
cpg	2346.83	J/molxK	1334.07	Joback Method
cpg	2307.25	J/molxK	1269.78	Joback Method
cpg	2265.20	J/molxK	1205.49	Joback Method
cpg	2459.08	J/molxK	1526.95	Joback Method
dvisc	0.0000034	Paxs	1141.20	Joback Method

dvisc	0.0000048	Paxs	1039.62	Joback Method
dvisc	0.0000075	Paxs	938.05	Joback Method
dvisc	0.0000128	Paxs	836.47	Joback Method
dvisc	0.0000256	Paxs	734.90	Joback Method
dvisc	0.0000639	Paxs	633.32	Joback Method
dvisc	0.0002257	Paxs	531.75	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R608576&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

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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