

15-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: BPCWOJVVAONZEV-WCWDXBQESA-N
Formula: C41H82
SMILES: CCCCCCCCCCCCCC=CCCCCCCCCCCCC(C)CCCCCCCCCCCCC
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
mcvol	584.250	ml/mol	McGowan Method
pc	385.37	kPa	Joback Method
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	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2219.84	J/mol×K	1141.20	Joback Method
cpg	2265.20	J/mol×K	1205.49	Joback Method
cpg	2307.25	J/mol×K	1269.78	Joback Method
cpg	2346.83	J/mol×K	1334.07	Joback Method
cpg	2384.77	J/mol×K	1398.36	Joback Method
cpg	2421.91	J/mol×K	1462.66	Joback Method
cpg	2459.08	J/mol×K	1526.95	Joback Method
dvisc	0.0002257	Pa×s	531.75	Joback Method
dvisc	0.0000639	Pa×s	633.32	Joback Method

dvisc	0.0000256	Pa×s	734.90	Joback Method
dvisc	0.0000128	Pa×s	836.47	Joback Method
dvisc	0.0000075	Pa×s	938.05	Joback Method
dvisc	0.0000048	Pa×s	1039.62	Joback Method
dvisc	0.0000034	Pa×s	1141.20	Joback Method

Sources

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=R608536&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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