2-pentacosene (E)

Inchi: InChI=1S/C25H50/c1-3-5-7-9-11-13-15-17-19-21-23-25-24-22-20-18-16-14-12-10-8-6-4-2
InchiKey: FBNVVWQGXNHZAR-HWKANZROSA-N
Formula: C25H50
SMILES: CC=CCCCCCCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]: 350.66

Physical Properties

Property code	Value	Unit	Source
gf	239.84	kJ/mol	Joback Method
hf	-442.11	kJ/mol	Joback Method
hfus	60.71	kJ/mol	Joback Method
hvap	71.20	kJ/mol	Joback Method
log10ws	-10.14		Crippen Method
logp	9.775		Crippen Method
mcvol	358.810	ml/mol	McGowan Method
pc	786.39	kPa	Joback Method
rinpol	2506.00		NIST Webbook
tb	775.56	K	Joback Method
tc	950.67	K	Joback Method
tf	366.43	K	Joback Method
vc	1.415	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1127.97	J/mol×K	775.56	Joback Method
cpg	1231.81	J/mol×K	921.48	Joback Method
cpg	1212.94	J/mol×K	892.30	Joback Method
cpg	1193.17	J/mol×K	863.11	Joback Method
cpg	1172.45	J/mol×K	833.93	Joback Method
cpg	1150.73	J/mol×K	804.74	Joback Method
cpg	1249.84	J/mol×K	950.67	Joback Method
dvisc	0.0000437	Pa×s	775.56	Joback Method
dvisc	0.0000607	Pa×s	707.37	Joback Method

dvisc	0.0000904	Pa×s	639.18	Joback Method
dvisc	0.0001480	Pa×s	570.99	Joback Method
dvisc	0.0002771	Pa×s	502.81	Joback Method
dvisc	0.0006316	Pa×s	434.62	Joback Method
dvisc	0.0019564	Pa×s	366.43	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R205875&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
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