9-Pentacosene

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: YJTCMKZGFBOKQS-HTXNQAPBSA-N
Formula: C25H50
SMILES: CCCCCCCCC=CCCCCCCCCCCCCCCC
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	2471.92		NIST Webbook
rinpol	2471.00		NIST Webbook
rinpol	2473.00		NIST Webbook
rinpol	2475.00		NIST Webbook
rinpol	2471.92		NIST Webbook
rinpol	2465.00		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

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=R282149&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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