6,9,12,15-Pentacosatetraene

Inchi: InChI=1S/C25H44/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: LQUNNFHOQFOWRN-KTWHSFBLSA-N
Formula: C25H44
SMILES: CCCCCC=CCC=CCC=CCCCCCCCCC
Mol. weight [g/mol]: 344.62

Physical Properties

Property code	Value	Unit	Source
gf	480.50	kJ/mol	Joback Method
hf	-90.45	kJ/mol	Joback Method
hfus	61.31	kJ/mol	Joback Method
hvap	71.08	kJ/mol	Joback Method
log10ws	-9.70		Crippen Method
logp	9.102		Crippen Method
mcvol	345.910	ml/mol	McGowan Method
pc	859.99	kPa	Joback Method
rinpol	2420.00		NIST Webbook
tb	788.04	K	Joback Method
tc	970.21	K	Joback Method
tf	351.19	K	Joback Method
vc	1.355	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1056.04	J/mol×K	788.04	Joback Method
cpg	1153.08	J/mol×K	939.85	Joback Method
cpg	1135.21	J/mol×K	909.49	Joback Method
cpg	1116.65	J/mol×K	879.13	Joback Method
cpg	1097.32	J/mol×K	848.76	Joback Method
cpg	1077.15	J/mol×K	818.40	Joback Method
cpg	1170.35	J/mol×K	970.21	Joback Method
dvisc	0.0000287	Pa×s	788.04	Joback Method
dvisc	0.0000400	Pa×s	715.23	Joback Method

dvisc	0.0000601	Pa×s	642.42	Joback Method
dvisc	0.0001003	Pa×s	569.62	Joback Method
dvisc	0.0001942	Pa×s	496.81	Joback Method
dvisc	0.0004720	Pa×s	424.00	Joback Method
dvisc	0.0016578	Pa×s	351.19	Joback Method

Sources

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=R627097&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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