6,9-Pentacosadiene

Inchi: InChI=1S/C25H48/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: HEDSUJXTHUJEDT-GRAPOSQESA-N
Formula: C25H48
SMILES: CCCCCC=CCC=CCCCCCCCCCCCCCC
Mol. weight [g/mol]: 348.65

Physical Properties

Property code	Value	Unit	Source
gf	320.06	kJ/mol	Joback Method
hf	-324.89	kJ/mol	Joback Method
hfus	60.91	kJ/mol	Joback Method
hvap	71.16	kJ/mol	Joback Method
log10ws	-9.99		Crippen Method
logp	9.550		Crippen Method
mcvol	354.510	ml/mol	McGowan Method
pc	809.83	kPa	Joback Method
rinpol	2453.00		NIST Webbook
tb	779.72	K	Joback Method
tc	956.82	K	Joback Method
tf	361.35	K	Joback Method
vc	1.395	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1104.22	J/mol×K	779.72	Joback Method
cpg	1205.58	J/mol×K	927.31	Joback Method
cpg	1187.09	J/mol×K	897.79	Joback Method
cpg	1167.76	J/mol×K	868.27	Joback Method
cpg	1147.55	J/mol×K	838.75	Joback Method
cpg	1126.39	J/mol×K	809.24	Joback Method
cpg	1223.29	J/mol×K	956.82	Joback Method
dvisc	0.0000380	Pa×s	779.72	Joback Method
dvisc	0.0000528	Pa×s	709.99	Joback Method

dvisc	0.0000789	Pa×s	640.26	Joback Method
dvisc	0.0001300	Pa×s	570.54	Joback Method
dvisc	0.0002462	Pa×s	500.81	Joback Method
dvisc	0.0005732	Pa×s	431.08	Joback Method
dvisc	0.0018495	Pa×s	361.35	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=R406914&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