

Z,Z-6,25-Tetratriacontadien-2-one

Other names:	(6Z,25Z)-6,25-Tetratriacontadien-2-one Z,Z-6,25-Tetratriacontadien-2-one
Inchi:	InChI=1S/C34H64O/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25
InchiKey:	QHFMHIUBQJRJIF-YVZJDIIDSA-N
Formula:	C34H64O
SMILES:	CCCCCCCC=CCCCCCCCCCCCCCCCCCC=CCCC(C)=O
Mol. weight [g/mol]:	488.87

Physical Properties

Property code	Value	Unit	Source
gf	266.92	kJ/mol	Joback Method
hf	-623.23	kJ/mol	Joback Method
hfus	85.82	kJ/mol	Joback Method
hvap	97.94	kJ/mol	Joback Method
log10ws	-13.04		Crippen Method
logp	12.240		Crippen Method
mcvol	482.890	ml/mol	McGowan Method
pc	537.08	kPa	Joback Method
tb	1039.51	K	Joback Method
tc	1306.56	K	Joback Method
tf	512.71	K	Joback Method
vc	1.905	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1729.47	J/mol×K	1039.51	Joback Method
cpg	1759.43	J/mol×K	1084.02	Joback Method
cpg	1787.75	J/mol×K	1128.53	Joback Method
cpg	1814.67	J/mol×K	1173.04	Joback Method
cpg	1840.45	J/mol×K	1217.54	Joback Method
cpg	1865.33	J/mol×K	1262.05	Joback Method
cpg	1889.59	J/mol×K	1306.56	Joback Method
dvisc	0.0003701	Paxs	512.71	Joback Method

dvisc	0.0001285	Paxs	600.51	Joback Method
dvisc	0.0000584	Paxs	688.31	Joback Method
dvisc	0.0000317	Paxs	776.11	Joback Method
dvisc	0.0000195	Paxs	863.91	Joback Method
dvisc	0.0000131	Paxs	951.71	Joback Method
dvisc	0.0000095	Paxs	1039.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U111389&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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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