

Cinnamyl linoleate

Inchi:	InChI=1S/C27H40O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-19-24-27(28)29-25-20-23-26
InchiKey:	PFBHGAJSRPDNRW-LRMMBRELSA-N
Formula:	C27H40O2
SMILES:	CCCCC=CCC=CCCCCCCC(=O)OCC=Cc1cccc1
Mol. weight [g/mol]:	396.61

Physical Properties

Property code	Value	Unit	Source
gf	295.61	kJ/mol	Joback Method
hf	-257.22	kJ/mol	Joback Method
hfus	63.12	kJ/mol	Joback Method
hvap	87.00	kJ/mol	Joback Method
log10ws	-8.82		Crippen Method
logp	8.056		Crippen Method
mcvol	362.070	ml/mol	McGowan Method
pc	931.21	kPa	Joback Method
rinpol	3061.70		NIST Webbook
tb	932.61	K	Joback Method
tc	1143.51	K	Joback Method
tf	477.39	K	Joback Method
vc	1.403	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1173.77	J/molxK	932.61	Joback Method
cpg	1192.87	J/molxK	967.76	Joback Method
cpg	1211.00	J/molxK	1002.91	Joback Method
cpg	1228.25	J/molxK	1038.06	Joback Method
cpg	1244.74	J/molxK	1073.21	Joback Method
cpg	1260.58	J/molxK	1108.36	Joback Method
cpg	1275.87	J/molxK	1143.51	Joback Method
dvisc	0.0004793	Paxs	477.39	Joback Method
dvisc	0.0001921	Paxs	553.26	Joback Method

dvisc	0.0000960	Paxs	629.13	Joback Method
dvisc	0.0000557	Paxs	705.00	Joback Method
dvisc	0.0000359	Paxs	780.87	Joback Method
dvisc	0.0000250	Paxs	856.74	Joback Method
dvisc	0.0000185	Paxs	932.61	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=U413727&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

Latest version available from:

<https://www.chemeo.com/cid/94-841-4/Cinnamyl-linoleate.pdf>

Generated by Cheméo on 2024-04-19 18:55:44.568903576 +0000 UTC m=+15842193.489480892.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.