

9,12,15-Octadecatrienoic acid, phenylmethyl ester, (z,z,z)-

Other names:	Benzyl (9Z,12Z,15Z)-9,12,15-octadecatrienoate Linolenic acid, phenylmethyl ester Benzyl linolenate
Inchi:	InChI=1S/C25H36O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-19-22-25(26)27-23-24-20-17
InchiKey:	XOMBABWFKFXLII-PDBXOOCHSA-N
Formula:	C25H36O2
SMILES:	CC/C=C\C/C=C\C/C=C\C\CCCCCCCC(=O)OCc1ccccc1
Mol. weight [g/mol]:	368.56

Physical Properties

Property code	Value	Unit	Source
hfus	57.94	kJ/mol	Joback Method
hvap	120.92	kJ/mol	Cheméo Relay (1.0)
log10ws	-6.47		Cheméo Relay (1.0)
logp	7.319		Crippen Method
mcvol	333.890	ml/mol	McGowan Method
rinpol	2774.90		NIST Webbook
rinpol	2702.00		NIST Webbook
rinpol	2774.90		NIST Webbook
tb	642.35	K	Cheméo Relay (1.0)
tc	863.22	K	Cheméo Relay (1.0)
tf	257.29	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1049.54	J/mol×K	886.85	Joback Method
cpg	1146.73	J/mol×K	1092.88	Joback Method
cpg	1132.33	J/mol×K	1058.54	Joback Method
cpg	1117.33	J/mol×K	1024.21	Joback Method
cpg	1101.65	J/mol×K	989.87	Joback Method
cpg	1085.18	J/mol×K	955.53	Joback Method
cpg	1067.85	J/mol×K	921.19	Joback Method
dvisc	0.0000732	Pa×s	670.85	Joback Method

dvisc	0.0000247	Pa×s	886.85	Joback Method
dvisc	0.0000333	Pa×s	814.85	Joback Method
dvisc	0.0000475	Pa×s	742.85	Joback Method
dvisc	0.0006100	Pa×s	454.85	Joback Method
dvisc	0.0001252	Pa×s	598.85	Joback Method
dvisc	0.0002480	Pa×s	526.85	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C77509025&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/63-812-0/9-12-15-Octadecatrienoic-acid-phenylmethyl-ester-z-z-z.pdf>

Generated by Cheméo on 2026-07-21 23:47:06.714892625 +0000 UTC m=+188722.556778003.

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