

Fumaric acid, 2-heptyl pentadecyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C26H48O4/c1-4-6-8-9-10-11-12-13-14-15-16-17-19-23-29-25(27)21-22-26(28)

QMIURAQSLKAJJK-QURGRASLSA-N

C26H48O4

CCCCCCCCCCCCCCCCOC(=O)C=CC(=O)OC(C)CCCCC

424.66

Physical Properties

Property code	Value	Unit	Source
gf	-222.02	kJ/mol	Joback Method
hf	-957.63	kJ/mol	Joback Method
hfus	65.35	kJ/mol	Joback Method
hvap	91.35	kJ/mol	Joback Method
log10ws	-8.40		Crippen Method
logp	7.689		Crippen Method
mcvol	387.780	ml/mol	McGowan Method
pc	788.16	kPa	Joback Method
rinpol	2911.00		NIST Webbook
rinpol	2911.00		NIST Webbook
tb	950.58	K	Joback Method
tc	1167.61	K	Joback Method
tf	507.02	K	Joback Method
vc	1.514	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1317.93	J/mol×K	950.58	Joback Method
cpg	1406.49	J/mol×K	1131.44	Joback Method
cpg	1391.54	J/mol×K	1095.27	Joback Method
cpg	1375.27	J/mol×K	1059.10	Joback Method
cpg	1357.62	J/mol×K	1022.92	Joback Method
cpg	1338.52	J/mol×K	986.75	Joback Method
cpg	1420.19	J/mol×K	1167.61	Joback Method
dvisc	0.0000173	Pa×s	950.58	Joback Method

dvisc	0.0000236	Pa×s	876.65	Joback Method
dvisc	0.0000341	Pa×s	802.73	Joback Method
dvisc	0.0000531	Pa×s	728.80	Joback Method
dvisc	0.0000914	Pa×s	654.87	Joback Method
dvisc	0.0001808	Pa×s	580.95	Joback Method
dvisc	0.0004362	Pa×s	507.02	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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=U348632&Units=SI

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.cheméo.com/cid/87-019-5/Fumaric-acid-2-heptyl-pentadecyl-ester.pdf>

Generated by Cheméo on 2025-12-05 11:04:06.29119523 +0000 UTC m=+4680843.821235891.

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