

Sebacic acid, 6-ethyloct-3-yl isoheptyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C26H50O4/c1-6-23(7-2)19-20-24(8-3)30-26(28)18-14-12-10-9-11-13-17-25(27)

PHEXCORQVZVHNS-UHFFFAOYSA-N

C26H50O4

CCC(CC)CCC(CC)OC(=O)CCCCCCCCC(=O)OCCCC(C)C

426.67

Physical Properties

Property code	Value	Unit	Source
gf	-307.12	kJ/mol	Joback Method
hf	-1085.41	kJ/mol	Joback Method
hfus	58.10	kJ/mol	Joback Method
hvap	90.62	kJ/mol	Joback Method
log10ws	-8.06		Crippen Method
logp	7.625		Crippen Method
mcvol	392.080	ml/mol	McGowan Method
pc	772.46	kPa	Joback Method
rinpol	2809.00		NIST Webbook
tb	945.54	K	Joback Method
tc	1161.05	K	Joback Method
tf	482.10	K	Joback Method
vc	1.522	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1346.32	J/mol×K	945.54	Joback Method
cpg	1434.66	J/mol×K	1125.13	Joback Method
cpg	1420.12	J/mol×K	1089.21	Joback Method
cpg	1404.07	J/mol×K	1053.29	Joback Method
cpg	1386.45	J/mol×K	1017.38	Joback Method
cpg	1367.21	J/mol×K	981.46	Joback Method
cpg	1447.72	J/mol×K	1161.05	Joback Method
dvisc	0.0000164	Pa×s	945.54	Joback Method
dvisc	0.0000230	Pa×s	868.30	Joback Method

dvisc	0.0000345	Pa×s	791.06	Joback Method
dvisc	0.0000565	Pa×s	713.82	Joback Method
dvisc	0.0001044	Pa×s	636.58	Joback Method
dvisc	0.0002284	Pa×s	559.34	Joback Method
dvisc	0.0006421	Pa×s	482.10	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354186&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

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