

Sebacic acid, di(6-ethyloct-3-yl) ester

Inchi:	InChI=1S/C30H58O4/c1-7-25(8-2)21-23-27(11-5)33-29(31)19-17-15-13-14-16-18-20-30
InchiKey:	QVEPSOOXKQRECX-UHFFFAOYSA-N
Formula:	C30H58O4
SMILES:	CCC(CC)CCC(CC)OC(=O)CCCCCCCCC(=O)OC(CC)CCC(CC)CC
Mol. weight [g/mol]:	482.78

Physical Properties

Property code	Value	Unit	Source
gf	-275.88	kJ/mol	Joback Method
hf	-1173.25	kJ/mol	Joback Method
hfus	64.94	kJ/mol	Joback Method
hvap	99.13	kJ/mol	Joback Method
log10ws	-9.85		Crippen Method
logp	9.184		Crippen Method
mvol	448.440	ml/mol	McGowan Method
pc	633.20	kPa	Joback Method
rinpol	3097.00		NIST Webbook
rinpol	3097.00		NIST Webbook
tb	1036.62	K	Joback Method
tc	1290.93	K	Joback Method
tf	512.18	K	Joback Method
vc	1.740	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1606.02	J/molxK	1036.62	Joback Method
cpg	1628.91	J/molxK	1079.01	Joback Method
cpg	1649.42	J/molxK	1121.39	Joback Method
cpg	1667.65	J/molxK	1163.78	Joback Method
cpg	1683.71	J/molxK	1206.16	Joback Method
cpg	1697.67	J/molxK	1248.55	Joback Method
cpg	1709.66	J/molxK	1290.93	Joback Method
dvisc	0.0004148	Paxs	512.18	Joback Method

dvisc	0.0001320	Paxs	599.59	Joback Method
dvisc	0.0000562	Paxs	686.99	Joback Method
dvisc	0.0000290	Paxs	774.40	Joback Method
dvisc	0.0000171	Paxs	861.81	Joback Method
dvisc	0.0000111	Paxs	949.21	Joback Method
dvisc	0.0000078	Paxs	1036.62	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354195&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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