

Glutaric acid, decyl 6-ethyloct-3-yl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C25H48O4/c1-5-9-10-11-12-13-14-15-21-28-24(26)17-16-18-25(27)29-23(8-4)

NMYXAAYFVXBOEH-UHFFFAOYSA-N

C25H48O4

CCCCCCCCCOC(=O)CCCC(=O)OC(CC)CCC(CC)CC

412.65

Physical Properties

Property code	Value	Unit	Source
gf	-313.10	kJ/mol	Joback Method
hf	-1059.49	kJ/mol	Joback Method
hfus	59.03	kJ/mol	Joback Method
hvap	88.78	kJ/mol	Joback Method
log10ws	-7.88		Crippen Method
logp	7.379		Crippen Method
mcvol	377.990	ml/mol	McGowan Method
pc	811.68	kPa	Joback Method
rinpol	2713.00		NIST Webbook
tb	923.10	K	Joback Method
tc	1132.09	K	Joback Method
tf	485.83	K	Joback Method
vc	1.472	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1281.95	J/mol×K	923.10	Joback Method
cpg	1302.47	J/mol×K	957.93	Joback Method
cpg	1321.46	J/mol×K	992.76	Joback Method
cpg	1338.96	J/mol×K	1027.60	Joback Method
cpg	1355.01	J/mol×K	1062.43	Joback Method
cpg	1369.65	J/mol×K	1097.26	Joback Method
cpg	1382.92	J/mol×K	1132.09	Joback Method
dvisc	0.0006234	Pa×s	485.83	Joback Method
dvisc	0.0002451	Pa×s	558.71	Joback Method

dvisc	0.0001196	Pa×s	631.59	Joback Method
dvisc	0.0000676	Pa×s	704.47	Joback Method
dvisc	0.0000426	Pa×s	777.34	Joback Method
dvisc	0.0000290	Pa×s	850.22	Joback Method
dvisc	0.0000210	Pa×s	923.10	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358224&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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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