

Glutaric acid, 2,6-dimethylnon-1-en-3-yn-5-yl tridecyl ester

Inchi:	InChI=1S/C29H50O4/c1-6-8-9-10-11-12-13-14-15-16-17-24-32-28(30)20-18-21-29(31)33
InchiKey:	TXUIWIATKCDJOY-UHFFFAOYSA-N
Formula:	C29H50O4
SMILES:	<chem>C=C(C)C#CC(OC(=O)CCCC(=O)OCCCCCCCCCCCCC)C(C)CCC</chem>
Mol. weight [g/mol]:	462.70

Physical Properties

Property code	Value	Unit	Source
gf	2.67	kJ/mol	Joback Method
hf	-754.11	kJ/mol	Joback Method
hfus	69.93	kJ/mol	Joback Method
hvap	99.25	kJ/mol	Joback Method
log10ws	-9.21		Crippen Method
logp	7.938		Crippen Method
mcvol	421.450	ml/mol	McGowan Method
pc	735.62	kPa	Joback Method
rinpola	3051.00		NIST Webbook
rinpola	3051.00		NIST Webbook
tb	1020.18	K	Joback Method
tc	1255.40	K	Joback Method
tf	621.29	K	Joback Method
vc	1.639	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1452.74	J/molxK	1020.18	Joback Method
cpg	1472.83	J/molxK	1059.38	Joback Method
cpg	1491.10	J/molxK	1098.59	Joback Method
cpg	1507.65	J/molxK	1137.79	Joback Method
cpg	1522.54	J/molxK	1176.99	Joback Method
cpg	1535.84	J/molxK	1216.20	Joback Method
cpg	1547.63	J/molxK	1255.40	Joback Method

Sources

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=U359830&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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