

Glutaric acid, oct-1-en-3-yl tridec-2-yn-1-yl ester

Inchi:	InChI=1S/C26H44O4/c1-4-7-9-10-11-12-13-14-15-16-18-23-29-25(27)21-19-22-26(28)30
InchiKey:	MJANTWCMUQCFCG-UHFFFAOYSA-N
Formula:	C26H44O4
SMILES:	C=CC(CCCCC)OC(=O)CCCC(=O)OCC#CCCCCCCCCCC
Mol. weight [g/mol]:	420.63

Physical Properties

Property code	Value	Unit	Source
gf	-11.60	kJ/mol	Joback Method
hf	-677.12	kJ/mol	Joback Method
hfus	66.99	kJ/mol	Joback Method
hvap	92.88	kJ/mol	Joback Method
log10ws	-8.19		Crippen Method
logp	6.912		Crippen Method
mvol	379.180	ml/mol	McGowan Method
pc	858.98	kPa	Joback Method
rinpol	2840.00		NIST Webbook
rinpol	2840.00		NIST Webbook
tb	952.10	K	Joback Method
tc	1166.28	K	Joback Method
tf	616.44	K	Joback Method
vc	1.476	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1261.54	J/mol×K	952.10	Joback Method
cpg	1280.49	J/mol×K	987.80	Joback Method
cpg	1297.99	J/mol×K	1023.49	Joback Method
cpg	1314.07	J/mol×K	1059.19	Joback Method
cpg	1328.79	J/mol×K	1094.89	Joback Method
cpg	1342.18	J/mol×K	1130.58	Joback Method
cpg	1354.30	J/mol×K	1166.28	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405358&Units=SI
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

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
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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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