

Glutaric acid monoamide, N-(1,2,3,4-tetrahydronaphth-1-yl)-, dodecyl ester

Other names: Glutaric acid, N-(1,2,3,4-tetrahydronaphth-1-yl)-, dodecyl ester

Inchi: InChI=1S/C27H43NO3/c1-2-3-4-5-6-7-8-9-10-13-22-31-27(30)21-15-20-26(29)28-25-19-

InchiKey: JPMSLDUCTYXNDJ-UHFFFAOYSA-N

Formula: C27H43NO3

SMILES: CCCCCCCCCCCCCOC(=O)CCCC(=O)NC1CCCCc2cccc21

Mol. weight [g/mol]: 429.64

Physical Properties

Property code	Value	Unit	Source
gf	54.44	kJ/mol	Joback Method
hf	-612.82	kJ/mol	Joback Method
hfus	64.86	kJ/mol	Joback Method
hvap	101.06	kJ/mol	Joback Method
log10ws	-8.37		Crippen Method
logp	6.815		Crippen Method
mcvol	375.660	ml/mol	McGowan Method
pc	966.27	kPa	Joback Method
rinpol	3495.00		NIST Webbook
tb	1040.16	K	Joback Method
tc	1274.21	K	Joback Method
tf	622.16	K	Joback Method
vc	1.454	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1325.53	J/mol×K	1040.16	Joback Method
cpg	1343.32	J/mol×K	1079.17	Joback Method
cpg	1359.71	J/mol×K	1118.18	Joback Method
cpg	1374.84	J/mol×K	1157.18	Joback Method
cpg	1388.81	J/mol×K	1196.19	Joback Method
cpg	1401.74	J/mol×K	1235.20	Joback Method
cpg	1413.74	J/mol×K	1274.21	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=U360214&Units=SI

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

Latest version available from:

<https://www.chemeo.com/cid/21-535-4/Glutaric-acid-monoamide-N-1-2-3-4-tetrahydronaphth-1-yl-dodecyl-ester.pdf>

Generated by Cheméo on 2025-12-05 16:51:33.900551358 +0000 UTC m=+4701691.430592012.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.