

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

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

Inchi: InChI=1S/C25H39NO3/c1-2-3-4-5-6-7-8-11-20-29-25(28)19-13-18-24(27)26-23-17-12-15

InchiKey: QMOJNMRMWCXDHM-UHFFFAOYSA-N

Formula: C25H39NO3

SMILES: CCCCCCCCCCOC(=O)CCCC(=O)NC1CCCCc2ccccc21

Mol. weight [g/mol]: 401.58

Physical Properties

Property code	Value	Unit	Source
gf	37.60	kJ/mol	Joback Method
hf	-571.54	kJ/mol	Joback Method
hfus	59.68	kJ/mol	Joback Method
hvap	96.60	kJ/mol	Joback Method
log10ws	-7.54		Crippen Method
logp	6.034		Crippen Method
mcvol	347.480	ml/mol	McGowan Method
pc	1092.82	kPa	Joback Method
rinpol	3276.00		NIST Webbook
tb	994.40	K	Joback Method
tc	1217.79	K	Joback Method
tf	599.62	K	Joback Method
vc	1.341	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1199.82	J/mol×K	994.40	Joback Method
cpg	1216.92	J/mol×K	1031.63	Joback Method
cpg	1232.73	J/mol×K	1068.86	Joback Method
cpg	1247.34	J/mol×K	1106.10	Joback Method
cpg	1260.84	J/mol×K	1143.33	Joback Method
cpg	1273.33	J/mol×K	1180.56	Joback Method
cpg	1284.90	J/mol×K	1217.79	Joback Method

Sources

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=U360212&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

Latest version available from:

<https://www.chemeo.com/cid/10-122-4/Glutaric-acid-monoamide-N-1-2-3-4-tetrahydronaphth-1-yl-decyl-ester.pdf>

Generated by Cheméo on 2025-12-22 01:32:01.618889468 +0000 UTC m=+6115319.148930123.

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