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

Othernames: Glutaric acid, N-(1,2,3,4-tetrahydronaphth-1-yl)-, undecyl ester
Inchi: InChI=1S/C26H41NO3/c1-2-3-4-5-6-7-8-9-12-21-30-26(29)20-14-19-25(28)27-24-18-13-
InchiKey: DGIXCLDVIUHCDQ-UHFFFAOYSA-N
Formula: C26H41NO3
SMILES: CCCCCCCCCCCOC(=O)CCCC(=O)NC1CCCc2ccccc21
Mol. weight [g/mol]: 415.62

Physical Properties

Property code	Value	Unit	Source
hfus	62.27	kJ/mol	Joback Method
hvap	135.69	kJ/mol	Cheméo Relay (1.0)
log10ws	-6.10		Cheméo Relay (1.0)
logp	6.425		Crippen Method
mcvol	361.570	ml/mol	McGowan Method
rinpol	3376.00		NIST Webbook
tb	705.90	K	Cheméo Relay (1.0)
tf	361.52	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1262.45	J/mol×K	1017.28	Joback Method
cpg	1279.86	J/mol×K	1055.31	Joback Method
cpg	1295.94	J/mol×K	1093.34	Joback Method
cpg	1310.79	J/mol×K	1131.37	Joback Method
cpg	1324.51	J/mol×K	1169.39	Joback Method
cpg	1337.20	J/mol×K	1207.42	Joback Method
cpg	1348.96	J/mol×K	1245.45	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360213&Units=SI
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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point