

Glutaric acid, monoamide, N-(2-phenylpropyl)-, heptyl ester

Inchi: InChI=1S/C21H33NO3/c1-3-4-5-6-10-16-25-21(24)15-11-14-20(23)22-17-18(2)19-12-8-7
InchiKey: GCDDCAOWGDXNSF-UHFFFAOYSA-N
Formula: C21H33NO3
SMILES: CCCCCCOC(=O)CCCC(=O)NCC(C)c1ccccc1
Mol. weight [g/mol]: 347.49

Physical Properties

Property code	Value	Unit	Source
gf	-37.54	kJ/mol	Joback Method
hf	-549.43	kJ/mol	Joback Method
hfus	50.15	kJ/mol	Joback Method
hvap	86.57	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	4.590		Crippen Method
mcvol	301.980	ml/mol	McGowan Method
pc	1300.47	kPa	Joback Method
rinpol	2725.00		NIST Webbook
tb	886.45	K	Joback Method
tc	1092.06	K	Joback Method
tf	512.60	K	Joback Method
vc	1.163	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	968.90	J/mol×K	886.45	Joback Method
cpg	985.10	J/mol×K	920.72	Joback Method
cpg	1000.13	J/mol×K	954.99	Joback Method
cpg	1014.04	J/mol×K	989.26	Joback Method
cpg	1026.88	J/mol×K	1023.52	Joback Method
cpg	1038.70	J/mol×K	1057.79	Joback Method
cpg	1049.55	J/mol×K	1092.06	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=U360825&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
hvac:	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
rinpol:	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/40-481-3/Glutaric-acid-monoamide-N-2-phenylpropyl-heptyl-ester.pdf>

Generated by Cheméo on 2025-12-23 13:56:35.306563002 +0000 UTC m=+6246392.836603683.

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