

Glycine, n-methyl-n-ethoxycarbonyl-, heptyl ester

Inchi:	InChI=1S/C13H25NO4/c1-4-6-7-8-9-10-18-12(15)11-14(3)13(16)17-5-2/h4-11H2,1-3H3
InchiKey:	VDXZRNIVSLJHTH-UHFFFAOYSA-N
Formula:	C13H25NO4
SMILES:	CCCCCCCCOC(=O)CN(C)C(=O)OCC
Mol. weight [g/mol]:	259.35

Physical Properties

Property code	Value	Unit	Source
hf	-890.71	kJ/mol	Cheméo Relay (1.0)
hfus	38.02	kJ/mol	Joback Method
hvap	83.96	kJ/mol	Cheméo Relay (1.0)
log10ws	-2.73		Cheméo Relay (1.0)
logp	2.588		Crippen Method
mcvol	218.890	ml/mol	McGowan Method
pc	1771.36	kPa	Joback Method
rinpol	1678.00		NIST Webbook
tb	567.58	K	Cheméo Relay (1.0)
tc	738.39	K	Cheméo Relay (1.0)
tf	251.16	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	607.70	J/mol×K	661.86	Joback Method
cpg	623.13	J/mol×K	691.11	Joback Method
cpg	637.83	J/mol×K	720.36	Joback Method
cpg	651.80	J/mol×K	749.62	Joback Method
cpg	665.07	J/mol×K	778.87	Joback Method
cpg	677.63	J/mol×K	808.12	Joback Method
cpg	689.49	J/mol×K	837.37	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=U320677&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

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):

Legend

cpg:	Ideal gas heat capacity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/45-090-2/Glycine-n-methyl-n-ethoxycarbonyl-heptyl-ester.pdf>

Generated by Cheméo on 2026-07-21 23:59:00.014720048 +0000 UTC m=+189435.856605442.

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