

Carbamic acid, 4-methylphenyl, heptyl ester

Inchi:	InChI=1S/C15H23NO2/c1-3-4-5-6-7-12-18-15(17)16-14-10-8-13(2)9-11-14/h8-11H,3-7,1
InchiKey:	VEZJZLODFKYULO-UHFFFAOYSA-N
Formula:	C15H23NO2
SMILES:	CCCCCCCOC(=O)Nc1ccc(C)cc1
Mol. weight [g/mol]:	249.35

Physical Properties

Property code	Value	Unit	Source
gf	33.67	kJ/mol	Joback Method
hf	-319.20	kJ/mol	Joback Method
hfus	36.14	kJ/mol	Joback Method
hvap	67.51	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	4.514		Crippen Method
mcvol	215.870	ml/mol	McGowan Method
pc	1918.62	kPa	Joback Method
rinpola	2002.00		NIST Webbook
tb	700.72	K	Joback Method
tc	899.86	K	Joback Method
tf	422.57	K	Joback Method
vc	0.827	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	602.88	J/mol×K	700.72	Joback Method
cpg	618.93	J/mol×K	733.91	Joback Method
cpg	634.05	J/mol×K	767.10	Joback Method
cpg	648.26	J/mol×K	800.29	Joback Method
cpg	661.58	J/mol×K	833.48	Joback Method
cpg	674.06	J/mol×K	866.67	Joback Method
cpg	685.70	J/mol×K	899.86	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=R37870&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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

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