Phenprobamate

Other names:	Benzenepropanol, carbamate
	«gamma»-Phenylpropyl carbamate
	Actiphan
	Actozine
	Ansepron
	Carbamic acid, 3-phenylpropyl ester
	Eirenal
	Extacol
	Fenprobamato
	Gamaquil
	HG 532
	MH 532
	Nelaxan
	Palmita
	Phenoprobamate
	Proformiphen
	Qumamquil
	Spantol
	Tranquil
	1-Carbamoyloxy-3-phenylpropane
	1-Propanol, 3-phenyl-, carbamate
	3-Phenyl-1-propanol carbamate
	3-Phenylpropyl carbamate
	Quamaquil
	NSC 44682
	NSC 50538
Inchi:	InChI=1S/C10H13NO2/c11-10(12)13-8-4-7-9-5-2-1-3-6-9/h1-3,5-6H,4,7-8H2,(H2,11,12)
InchiKey:	CAMYKONBWHRPDD-UHFFFAOYSA-N
Formula:	C10H13NO2
SMILES:	NC(=O)OCCCc1ccccc1
Mol. weight [g/mol]:	179.22
CAS:	673-31-4

Physical Properties

Property code	Value	Unit	Source
gf	-21.74	kJ/mol	Joback Method

hf	-224.21	kJ/mol	Joback Method
hfus	23.68	kJ/mol	Joback Method
hvap	59.93	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	1.715		Crippen Method
mcvol	145.420	ml/mol	McGowan Method
pc	3287.81	kPa	Joback Method
tb	603.70	K	Joback Method
tc	824.85	K	Joback Method
tf	376.50 ± 0.50	K	NIST Webbook
vc	0.540	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	357.93	J/mol×K	603.70	Joback Method
cpg	371.21	J/mol×K	640.56	Joback Method
cpg	383.65	J/mol×K	677.42	Joback Method
cpg	395.27	J/mol×K	714.27	Joback Method
cpg	406.09	J/mol×K	751.13	Joback Method
cpg	416.14	J/mol×K	787.99	Joback Method
cpg	425.45	J/mol×K	824.85	Joback Method

Sources

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=C673314&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume