

Butanamide, N-hexyl-

Other names:	Butyramide, N-hexyl- N-Hexylbutyramide
Inchi:	InChI=1S/C10H21NO/c1-3-5-6-7-9-11-10(12)8-4-2/h3-9H2,1-2H3,(H,11,12)
InchiKey:	YRVDTEDFGDNSLD-UHFFFAOYSA-N
Formula:	C10H21NO
SMILES:	CCCCCN=C(O)CCC
Mol. weight [g/mol]:	171.28
CAS:	10264-17-2

Physical Properties

Property code	Value	Unit	Source
hf	-329.53	kJ/mol	Joback Method
hvap	57.93	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	3.323		Crippen Method
mcvol	163.310	ml/mol	McGowan Method
pc	2092.66	kPa	Joback Method
tb	596.94	K	Joback Method
tc	772.83	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10264172&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

hf: Enthalpy of formation at standard conditions

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_c:	Critical Pressure
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature

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