

Methacrylamide, N-isobutyl-

Inchi:	InChI=1S/C8H15NO/c1-6(2)5-9-8(10)7(3)4/h6H,3,5H2,1-2,4H3,(H,9,10)
InchiKey:	FRFUQJFVJRYDZ-UHFFFAOYSA-N
Formula:	C8H15NO
SMILES:	C=C(C)C(O)=NCC(C)C
Mol. weight [g/mol]:	141.21

Physical Properties

Property code	Value	Unit	Source
hf	-177.89	kJ/mol	Joback Method
hvap	52.50	kJ/mol	Joback Method
log10ws	-1.77		Crippen Method
logp	2.175		Crippen Method
mcvol	130.830	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
rinpol	1155.00		NIST Webbook
rinpol	1155.00		NIST Webbook
tb	547.30	K	Joback Method
tc	736.03	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407964&Units=SI
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

Legend

hf:	Enthalpy of formation 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

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