

# N-Bis(trifluoroacetyl)-2-ethylbutan-1-amine

<b>Other names:</b>	1-[N-bis(trifluoroacetyl)]amino-2-ethylbutane
<b>Inchi:</b>	InChI=1S/C10H13F6NO2/c1-3-6(4-2)5-17(7(18)9(11,12)13)8(19)10(14,15)16/h6H,3-5H2
<b>InchiKey:</b>	KOBMYWWEACBTAI-UHFFFAOYSA-N
<b>Formula:</b>	C10H13F6NO2
<b>SMILES:</b>	CCC(CC)CN(C(=O)C(F)(F)F)C(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	293.21

## Physical Properties

Property code	Value	Unit	Source
gf	-1279.36	kJ/mol	Joback Method
hf	-1606.80	kJ/mol	Joback Method
hfus	28.00	kJ/mol	Joback Method
hvap	45.51	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	2.902		Crippen Method
mcvol	175.500	ml/mol	McGowan Method
pc	1927.05	kPa	Joback Method
rinpol	937.00		NIST Webbook
rinpol	937.00		NIST Webbook
tb	537.10	K	Joback Method
tc	694.45	K	Joback Method
tf	328.17	K	Joback Method
vc	0.706	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	455.77	J/mol×K	537.10	Joback Method
cpg	468.38	J/mol×K	563.33	Joback Method
cpg	480.28	J/mol×K	589.55	Joback Method
cpg	491.48	J/mol×K	615.78	Joback Method
cpg	502.02	J/mol×K	642.00	Joback Method
cpg	511.93	J/mol×K	668.23	Joback Method
cpg	521.26	J/mol×K	694.45	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373412&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373412&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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