

# 4-Bromobenzyl 2,2,2-trifluoroacetate

<b>Other names:</b>	4-Bromobenzyl alcohol, trifluoroacetate
<b>Inchi:</b>	InChI=1S/C9H6BrF3O2/c10-7-3-1-6(2-4-7)5-15-8(14)9(11,12)13/h1-4H,5H2
<b>InchiKey:</b>	ANOPWAXGWOMPNH-UHFFFAOYSA-N
<b>Formula:</b>	C9H6BrF3O2
<b>SMILES:</b>	O=C(OCc1ccc(Br)cc1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	283.04
<b>CAS:</b>	344884-23-7

## Physical Properties

Property code	Value	Unit	Source
gf	-673.51	kJ/mol	Joback Method
hf	-819.58	kJ/mol	Joback Method
hfus	22.62	kJ/mol	Joback Method
hvap	50.41	kJ/mol	Joback Method
log10ws	-3.88		Crippen Method
logp	3.055		Crippen Method
mcvol	144.160	ml/mol	McGowan Method
pc	3202.78	kPa	Joback Method
rinpol	1272.00		NIST Webbook
rinpol	1272.00		NIST Webbook
tb	574.01	K	Joback Method
tc	785.98	K	Joback Method
tf	366.28	K	Joback Method
vc	0.560	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.70	J/molxK	574.01	Joback Method
cpg	329.97	J/molxK	609.34	Joback Method
cpg	339.47	J/molxK	644.67	Joback Method
cpg	348.23	J/molxK	679.99	Joback Method
cpg	356.31	J/molxK	715.32	Joback Method
cpg	363.75	J/molxK	750.65	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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=C344884237&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C344884237&amp;Units=SI</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>rinpol:</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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