

# Benzoic acid, (4-(trifluoromethyl)phenyl)methyl ester

Inchi:	InChI=1S/C15H11F3O2/c16-15(17,18)13-8-6-11(7-9-13)10-20-14(19)12-4-2-1-3-5-12/h1
InchiKey:	UMZAUSNEEFIVRJ-UHFFFAOYSA-N
Formula:	C15H11F3O2
SMILES:	O=C(OCc1ccc(C(F)(F)F)cc1)c1ccccc1
Mol. weight [g/mol]:	280.24

## Physical Properties

Property code	Value	Unit	Source
gf	-524.90	kJ/mol	Joback Method
hf	-733.22	kJ/mol	Joback Method
hfus	26.91	kJ/mol	Joback Method
hvap	59.61	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	4.062		Crippen Method
mvol	187.440	ml/mol	McGowan Method
pc	2309.17	kPa	Joback Method
rinpol	1779.00		NIST Webbook
rinpol	1779.00		NIST Webbook
tb	671.81	K	Joback Method
tc	891.88	K	Joback Method
tf	400.52	K	Joback Method
vc	0.727	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	492.85	J/molxK	671.81	Joback Method
cpg	506.80	J/molxK	708.49	Joback Method
cpg	519.63	J/molxK	745.17	Joback Method
cpg	531.42	J/molxK	781.84	Joback Method
cpg	542.21	J/molxK	818.52	Joback Method
cpg	552.08	J/molxK	855.20	Joback Method
cpg	561.10	J/molxK	891.88	Joback Method

# Sources

<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=U368705&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U368705&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>h vap:</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>r in pol:</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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