

# Glutaric acid, 2,2,3,3,4,4,5,5-octafluoropentyl 2-bromo-4-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C16H12BrF9O4/c17-9-6-8(18)4-5-10(9)30-12(28)3-1-2-11(27)29-7-14(21,22)1
<b>InchiKey:</b>	YFJSGDXHRUHVTF-UHFFFAOYSA-N
<b>Formula:</b>	C16H12BrF9O4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1ccc(F)cc1Br)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	519.15

## Physical Properties

Property code	Value	Unit	Source
gf	-2023.74	kJ/mol	Joback Method
hf	-2419.77	kJ/mol	Joback Method
hfus	43.27	kJ/mol	Joback Method
hvap	67.93	kJ/mol	Joback Method
log10ws	-6.75		Crippen Method
logp	5.378		Crippen Method
mvol	260.850	ml/mol	McGowan Method
pc	1443.54	kPa	Joback Method
rinpol	2022.00		NIST Webbook
rinpol	2022.00		NIST Webbook
tb	804.16	K	Joback Method
tc	992.31	K	Joback Method
tf	523.23	K	Joback Method
vc	1.056	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	760.40	J/mol×K	804.16	Joback Method
cpg	770.65	J/mol×K	835.52	Joback Method
cpg	780.11	J/mol×K	866.88	Joback Method
cpg	788.84	J/mol×K	898.24	Joback Method
cpg	796.90	J/mol×K	929.59	Joback Method
cpg	804.35	J/mol×K	960.95	Joback Method
cpg	811.25	J/mol×K	992.31	Joback Method

# Sources

<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=U391823&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391823&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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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