

# Fumaric acid, pentafluorobenzyl 8-chlorooctyl ester

<b>Inchi:</b>	InChI=1S/C19H20ClF5O4/c20-9-5-3-1-2-4-6-10-28-13(26)7-8-14(27)29-11-12-15(21)17(22)18
<b>InchiKey:</b>	MVLMMLFTGSPJTM-BQYQJAHWSA-N
<b>Formula:</b>	C19H20ClF5O4
<b>SMILES:</b>	O=C(C=CC(=O)OCc1c(F)c(F)c(F)c(F)c1F)OCCCCCCCCCl
<b>Mol. weight [g/mol]:</b>	442.81

## Physical Properties

Property code	Value	Unit	Source
gf	-1200.24	kJ/mol	Joback Method
hf	-1624.98	kJ/mol	Joback Method
hfus	62.43	kJ/mol	Joback Method
hvap	82.04	kJ/mol	Joback Method
log10ws	-6.76		Crippen Method
logp	5.104		Crippen Method
mcvol	286.480	ml/mol	McGowan Method
pc	1185.79	kPa	Joback Method
rinqol	2550.00		NIST Webbook
tb	876.22	K	Joback Method
tc	1073.57	K	Joback Method
tf	565.02	K	Joback Method
vc	1.159	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	851.71	J/molxK	876.22	Joback Method
cpg	864.21	J/molxK	909.11	Joback Method
cpg	875.77	J/molxK	942.00	Joback Method
cpg	886.41	J/molxK	974.90	Joback Method
cpg	896.13	J/molxK	1007.79	Joback Method
cpg	904.96	J/molxK	1040.68	Joback Method
cpg	912.92	J/molxK	1073.57	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=U405885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405885&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>

# 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>hvac:</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>mccol:</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

Latest version available from:

<https://www.chemeo.com/cid/73-956-0/Fumaric-acid-pentafluorobenzyl-8-chlorooctyl-ester.pdf>

Generated by Cheméo on 2024-04-25 18:50:09.684679444 +0000 UTC m=+16360258.605256759.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.