

# Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl 2,4-dichlorophenyl ester

**Inchi:** InChI=1S/C15H10Cl2F8O4/c16-7-1-2-9(8(17)5-7)29-11(27)4-3-10(26)28-6-13(20,21)15(22,23)24

**InchiKey:** AXUCGEMMDOLBHF-UHFFFAOYSA-N

**Formula:** C15H10Cl2F8O4

**SMILES:** O=C(CCC(=O)Oc1ccc(Cl)cc1Cl)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)F

**Mol. weight [g/mol]:** 477.13

## Physical Properties

Property code	Value	Unit	Source
gf	-1875.53	kJ/mol	Joback Method
hf	-2260.83	kJ/mol	Joback Method
hfus	40.71	kJ/mol	Joback Method
hvap	68.85	kJ/mol	Joback Method
log10ws	-6.20		Crippen Method
logp	5.393		Crippen Method
mcvol	251.970	ml/mol	McGowan Method
pc	1441.35	kPa	Joback Method
rinpol	2087.00		NIST Webbook
rinpol	2087.00		NIST Webbook
tb	790.71	K	Joback Method
tc	980.64	K	Joback Method
tf	511.41	K	Joback Method
vc	1.018	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	711.04	J/molxK	790.71	Joback Method
cpg	720.69	J/molxK	822.36	Joback Method
cpg	729.54	J/molxK	854.02	Joback Method
cpg	737.66	J/molxK	885.67	Joback Method
cpg	745.09	J/molxK	917.33	Joback Method
cpg	751.89	J/molxK	948.98	Joback Method
cpg	758.12	J/molxK	980.64	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=U389780&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389780&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>rlnpol:</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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