

# Succinic acid, 2,2,3,3-tetrafluoropropyl 2-methoxyethyl ester

<b>Inchi:</b>	InChI=1S/C10H14F4O5/c1-17-4-5-18-7(15)2-3-8(16)19-6-10(13,14)9(11)12/h9H,2-6H2,1
<b>InchiKey:</b>	GGCHQRRJJCOTLJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H14F4O5
<b>SMILES:</b>	COCCOC(=O)CCC(=O)OCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	290.21

## Physical Properties

Property code	Value	Unit	Source
gf	-1318.36	kJ/mol	Joback Method
hf	-1670.02	kJ/mol	Joback Method
hfus	29.80	kJ/mol	Joback Method
hvap	53.62	kJ/mol	Joback Method
log10ws	-1.45		Crippen Method
logp	1.400		Crippen Method
mcvol	179.590	ml/mol	McGowan Method
pc	1964.82	kPa	Joback Method
rinpol	1399.00		NIST Webbook
rinpol	1399.00		NIST Webbook
tb	596.61	K	Joback Method
tc	760.59	K	Joback Method
tf	358.79	K	Joback Method
vc	0.717	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	477.59	J/mol×K	596.61	Joback Method
cpg	489.40	J/mol×K	623.94	Joback Method
cpg	500.67	J/mol×K	651.27	Joback Method
cpg	511.42	J/mol×K	678.60	Joback Method
cpg	521.64	J/mol×K	705.93	Joback Method
cpg	531.35	J/mol×K	733.26	Joback Method
cpg	540.53	J/mol×K	760.59	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390731&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390731&amp;Units=SI</a>
<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>

# 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

Latest version available from:

<https://www.chemeo.com/cid/76-305-9/Succinic-acid-2-2-3-3-tetrafluoropropyl-2-methoxyethyl-ester.pdf>

Generated by Cheméo on 2024-05-01 02:16:32.036596618 +0000 UTC m=+16819040.957173930.

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