

# Fumaric acid, 2,4,6-trichlorophenyl 3-methylbut-2-yl ester

<b>Inchi:</b>	InChI=1S/C15H15Cl3O4/c1-8(2)9(3)21-13(19)4-5-14(20)22-15-11(17)6-10(16)7-12(15)18
<b>InchiKey:</b>	HGZXTIPLXICXFC-SNAWJCMRSA-N
<b>Formula:</b>	C15H15Cl3O4
<b>SMILES:</b>	CC(C)C(C)OC(=O)C=CC(=O)Oc1c(Cl)cc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	365.64

## Physical Properties

Property code	Value	Unit	Source
gf	-269.35	kJ/mol	Joback Method
hf	-580.97	kJ/mol	Joback Method
hfus	38.80	kJ/mol	Joback Method
hvap	83.89	kJ/mol	Joback Method
log10ws	-5.36		Crippen Method
logp	4.696		Crippen Method
mcvol	245.750	ml/mol	McGowan Method
pc	1853.11	kPa	Joback Method
rinpol	2256.00		NIST Webbook
rinpol	2256.00		NIST Webbook
tb	852.37	K	Joback Method
tc	1080.38	K	Joback Method
tf	521.79	K	Joback Method
vc	0.930	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	638.51	J/molxK	852.37	Joback Method
cpg	683.97	J/molxK	1042.38	Joback Method
cpg	676.78	J/molxK	1004.38	Joback Method
cpg	668.66	J/molxK	966.38	Joback Method
cpg	659.59	J/molxK	928.37	Joback Method
cpg	649.54	J/molxK	890.37	Joback Method
cpg	690.25	J/molxK	1080.38	Joback Method
dvisc	0.0000538	Paxs	852.37	Joback Method

dvisc	0.0000681	Paxs	797.27	Joback Method
dvisc	0.0000893	Paxs	742.18	Joback Method
dvisc	0.0001222	Paxs	687.08	Joback Method
dvisc	0.0001767	Paxs	631.98	Joback Method
dvisc	0.0002741	Paxs	576.89	Joback Method
dvisc	0.0004665	Paxs	521.79	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U405949&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405949&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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

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