

# Diethylene glycol monoethyl ether, chlorodifluoroacetate

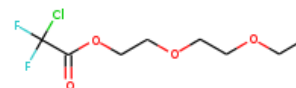
**InChI:** InChI=1S/C8H13ClF2O4/c1-2-13-3-4-14-5-6-15-7(12)8(9,10)11/h2-6H2,1H3

**InChI Key:** CECO VAGVDQHUX-UHFFFAOYSA-N

**Formula:** C<sub>8</sub>H<sub>13</sub>ClF<sub>2</sub>O<sub>4</sub>

**SMILES:** CCOCCOCCOC(=O)C(F)(F)Cl

**Molecular Weight:** 246.64



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-826.15	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-1134.40	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	24.58	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	48.83	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	1.41		Crippen Method
$P_c$	2306.95	kPa	Joback Method
$T_{\text{boil}}$	536.31	K	Joback Method
$T_c$	709.18	K	Joback Method
$T_{\text{fus}}$	330.06	K	Joback Method
$V_c$	0.62	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	375.31	J/mol×K	536.31	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**NIST Webbook:** [http://webbook.nist.gov/cgi/inchi/InChI=1S/C8H13ClF2O4/c1-2-13-3-4-14-5-6-15-7\(12\)8\(9,10\)11/h2-6H2,1H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C8H13ClF2O4/c1-2-13-3-4-14-5-6-15-7(12)8(9,10)11/h2-6H2,1H3)

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

$C_{p, gas}$ : Ideal gas heat capacity (J/mol×K).

$\Delta_f G^\circ$ : Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$ : Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$ : Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$ : Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$ : Octanol/Water partition coefficient .

$P_c$ : Critical Pressure (kPa).

$T_{boil}$ : Normal Boiling Point Temperature (K).

$T_c$ : Critical Temperature (K).

$T_{fus}$ : Normal melting (fusion) point (K).

$V_c$ : Critical Volume (m<sup>3</sup>/kg-mol).

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