# 4-Hexen-1-ol, (4e)-, heptafluorobutyrate
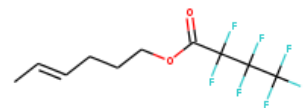
**InChI**: InChI=1S/C10H11F7O2/c1-2-3-4-5-6-19-7(18)8(11,12)9(13,14)10(15,16)17/h2-3H,4-6H2,1H3/b3-2+
**InChI Key**: WNMALWPOFDNDKZ-NSCUHMNNSA-N
**Formula**: C10H11F7O2
**SMILES**: CC=CCCCOC(=O)C(F)(F)C(F)(F)C(F)(F)F
**Molecular Weight**: 296.18

## Physical Properties

| Property | Value | Unit | Source |
|---|---|---|---|
| $\Delta_f G°$ | -1475.53 | kJ/mol | Joback Method |
| $\Delta_f H°_{gas}$ | -1776.33 | kJ/mol | Joback Method |
| $\Delta_{fus} H°$ | 23.96 | kJ/mol | Joback Method |
| $\Delta_{vap} H°$ | 37.36 | kJ/mol | Joback Method |
| $logP_{oct/wat}$ | 3.719 | | Crippen Method |
| $P_c$ | 1829.41 | kPa | Joback Method |
| $T_{boil}$ | 493.85 | K | Joback Method |
| $T_c$ | 647.78 | K | Joback Method |
| $T_{fus}$ | 280.93 | K | Joback Method |
| $V_c$ | 0.693 | $m^3$/kg-mol | Joback Method |

## Temperature Dependent Properties

| Property | Value | Unit | Temperature (K) | Source |
|---|---|---|---|---|
| $C_{p,gas}$ | 417.08 | J/mol×K | 493.85 | Joback Method |

## Sources

**Joback Method**: https://en.wikipedia.org/wiki/Joback_method

**NIST Webbook**: http://webbook.nist.gov/cgi/inchi/InChI=1S/C10H11F7O2/c1-2-3-4-5-6-19-7(18)8(11,12)9 (13,14)10(15,16)17/h2-3H,4-6H2,1H3/b3-2+

**Crippen Method**: http://pubs.acs.org/doi/abs/10.1021/ci990307l

## Legend

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

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

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

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

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

$log P_{oct/wat}$: 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$^3$/kg-mol).