# (Z)-4-Decen-1-ol, trifluoroacetate

**Inchi:** InChI=1S/C12H19F3O2/c1-2-3-4-5-6-7-8-9-10-17-11(16)12(13,14)15/h6-7H,2-5,8-10H2,1
**InchiKey:** UNYWGTHZVNPRQG-SREVYHEPSA-N
**Formula:** C12H19F3O2
**SMILES:** CCCCCC=CCCCOC(=O)C(F)(F)F
**Mol. weight [g/mol]:** 252.27

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -685.13 | kJ/mol | Joback Method |
| hf | -1015.67 | kJ/mol | Joback Method |
| hfus | 31.65 | kJ/mol | Joback Method |
| hvap | 47.67 | kJ/mol | Joback Method |
| log10ws | -4.22 | | Crippen Method |
| logp | 4.009 | | Crippen Method |
| mcvol | 188.390 | ml/mol | McGowan Method |
| pc | 1753.60 | kPa | Joback Method |
| rinpol | 1237.90 | | NIST Webbook |
| rinpol | 1237.90 | | NIST Webbook |
| tb | 548.99 | K | Joback Method |
| tc | 712.64 | K | Joback Method |
| tf | 296.27 | K | Joback Method |
| vc | 0.754 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 473.19 | J/mol×K | 548.99 | Joback Method |
| cpg | 487.45 | J/mol×K | 576.26 | Joback Method |
| cpg | 501.03 | J/mol×K | 603.54 | Joback Method |
| cpg | 513.97 | J/mol×K | 630.81 | Joback Method |
| cpg | 526.28 | J/mol×K | 658.09 | Joback Method |
| cpg | 538.00 | J/mol×K | 685.36 | Joback Method |
| cpg | 549.14 | J/mol×K | 712.64 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U352335&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# Legend

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |