

# 3-Hexyltrifluoroacetate

|                      |                                                                   |
|----------------------|-------------------------------------------------------------------|
| Inchi:               | InChI=1S/C8H13F3O2/c1-3-5-6(4-2)13-7(12)8(9,10)11/h6H,3-5H2,1-2H3 |
| InchiKey:            | TXLRKFWFZMQEOY-UHFFFAOYSA-N                                       |
| Formula:             | C8H13F3O2                                                         |
| SMILES:              | CCCC(CC)OC(=O)C(F)(F)F                                            |
| Mol. weight [g/mol]: | 198.18                                                            |
| CAS:                 | 761-34-2                                                          |

## Physical Properties

| Property code | Value    | Unit    | Source         |
|---------------|----------|---------|----------------|
| gf            | -801.47  | kJ/mol  | Joback Method  |
| hf            | -1055.61 | kJ/mol  | Joback Method  |
| hfus          | 17.57    | kJ/mol  | Joback Method  |
| hvap          | 38.42    | kJ/mol  | Joback Method  |
| log10ws       | -2.81    |         | Crippen Method |
| logp          | 2.671    |         | Crippen Method |
| mcvol         | 136.330  | ml/mol  | McGowan Method |
| pc            | 2384.19  | kPa     | Joback Method  |
| rinpol        | 796.40   |         | NIST Webbook   |
| tb            | 452.87   | K       | Joback Method  |
| tc            | 616.33   | K       | Joback Method  |
| tf            | 241.27   | K       | Joback Method  |
| vc            | 0.544    | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 307.19 | J/mol×K | 452.87          | Joback Method |
| cpg           | 319.14 | J/mol×K | 480.11          | Joback Method |
| cpg           | 330.57 | J/mol×K | 507.36          | Joback Method |
| cpg           | 341.49 | J/mol×K | 534.60          | Joback Method |
| cpg           | 351.92 | J/mol×K | 561.85          | Joback Method |
| cpg           | 361.87 | J/mol×K | 589.09          | Joback Method |
| cpg           | 371.35 | J/mol×K | 616.33          | Joback Method |

# Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C761342&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C761342&amp;Units=SI</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>hvap:</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>rlnpol:</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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