

# 2-((Octan-2-yloxy)carbonyl)benzoic acid

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Other names:         | 2-((Octan-2-yloxy)carbonyl)benzoic acid                                           |
| Inchi:               | InChI=1S/C16H22O4/c1-3-4-5-6-9-12(2)20-16(19)14-11-8-7-10-13(14)15(17)18/h7-8,10- |
| InchiKey:            | DUJBEEUYBSLMGM-UHFFFAOYSA-N                                                       |
| Formula:             | C16H22O4                                                                          |
| SMILES:              | CCCCCCC(C)OC(=O)c1ccccc1C(=O)O                                                    |
| Mol. weight [g/mol]: | 278.35                                                                            |

## Physical Properties

| Property code | Value   | Unit   | Source             |
|---------------|---------|--------|--------------------|
| hf            | -781.06 | kJ/mol | Cheméo Relay (1.0) |
| hfus          | 35.80   | kJ/mol | Joback Method      |
| hvap          | 106.39  | kJ/mol | Cheméo Relay (1.0) |
| ie            | 9.27    | eV     | Cheméo Relay (1.0) |
| log10ws       | -4.10   |        | Cheméo Relay (1.0) |
| logp          | 3.901   |        | Crippen Method     |
| mcvol         | 227.420 | ml/mol | McGowan Method     |
| pc            | 2012.70 | kPa    | Joback Method      |
| rinpol        | 2143.00 |        | NIST Webbook       |
| rinpol        | 2143.00 |        | NIST Webbook       |
| tb            | 604.93  | K      | Cheméo Relay (1.0) |
| tf            | 338.24  | K      | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 679.33    | J/mol×K | 819.04          | Joback Method |
| cpg           | 692.23    | J/mol×K | 852.41          | Joback Method |
| cpg           | 704.24    | J/mol×K | 885.78          | Joback Method |
| cpg           | 715.38    | J/mol×K | 919.15          | Joback Method |
| cpg           | 725.69    | J/mol×K | 952.52          | Joback Method |
| cpg           | 735.19    | J/mol×K | 985.90          | Joback Method |
| cpg           | 743.90    | J/mol×K | 1019.27         | Joback Method |
| dvisc         | 0.0007462 | Pa×s    | 476.93          | Joback Method |
| dvisc         | 0.0002933 | Pa×s    | 533.95          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0001380 | Pa×s | 590.97 | Joback Method |
| dvisc | 0.0000742 | Pa×s | 647.99 | Joback Method |
| dvisc | 0.0000441 | Pa×s | 705.00 | Joback Method |
| dvisc | 0.0000283 | Pa×s | 762.02 | Joback Method |
| dvisc | 0.0000193 | Pa×s | 819.04 | Joback Method |

## Sources

|                                  |                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b>           | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                             |
| <b>Cheméo Relay (1.0):</b>       |                                                                                                                                               |
| <b>Cheméo Relay (1.0, beta):</b> |                                                                                                                                               |
| <b>NIST Webbook:</b>             | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C68296979&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C68296979&amp;Units=SI</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>Crippen Method:</b>           | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                     |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>dvisc:</b>   | Dynamic viscosity                               |
| <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>ie:</b>      | Ionization energy                               |
| <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>rinpol:</b>  | Non-polar retention indices                     |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tf:</b>      | Normal melting (fusion) point                   |

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