

# Benzenemethanamine, 3-methyl-

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| Other names:         | 3-Methylbenzylamine<br>Benzylamine, m-methyl-<br>m-Methylbenzylamine |
| Inchi:               | InChI=1S/C8H11N/c1-7-3-2-4-8(5-7)6-9/h2-5H,6,9H2,1H3                 |
| InchiKey:            | RGXUCUWVGKLACF-UHFFFAOYSA-N                                          |
| Formula:             | C8H11N                                                               |
| SMILES:              | Cc1cccc(CN)c1                                                        |
| Mol. weight [g/mol]: | 121.18                                                               |
| CAS:                 | 100-81-2                                                             |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 185.71  | kJ/mol  | Joback Method  |
| hf            | 50.40   | kJ/mol  | Joback Method  |
| hfus          | 15.32   | kJ/mol  | Joback Method  |
| hvap          | 46.98   | kJ/mol  | Joback Method  |
| log10ws       | -2.26   |         | Crippen Method |
| logp          | 1.454   |         | Crippen Method |
| mcvol         | 109.800 | ml/mol  | McGowan Method |
| pc            | 3843.54 | kPa     | Joback Method  |
| tb            | 476.70  | K       | NIST Webbook   |
| tc            | 710.97  | K       | Joback Method  |
| tf            | 302.12  | K       | Joback Method  |
| vc            | 0.405   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 228.77 | J/mol×K | 486.63          | Joback Method |
| cpg           | 241.38 | J/mol×K | 524.02          | Joback Method |
| cpg           | 253.24 | J/mol×K | 561.41          | Joback Method |
| cpg           | 264.37 | J/mol×K | 598.80          | Joback Method |
| cpg           | 274.81 | J/mol×K | 636.19          | Joback Method |
| cpg           | 284.60 | J/mol×K | 673.58          | Joback Method |

cpg

293.75

J/mol×K

710.97

Joback Method

## Pressure Dependent Properties

| Property code | Value  | Unit | Pressure [kPa] | Source       |
|---------------|--------|------|----------------|--------------|
| tbrp          | 369.20 | K    | 2.70           | NIST Webbook |

## Sources

|                 |                                                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| McGowan Method: | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |
| NIST Webbook:   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C100812&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C100812&amp;Units=SI</a> |
| Crippen Method: | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                 |
| Crippen Method: | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| Joback Method:  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |
| KDB:            | <a href="https://www.cheric.org/files/research/kdb/mol/mol1398.mol">https://www.cheric.org/files/research/kdb/mol/mol1398.mol</a>         |

## Legend

|          |                                                 |
|----------|-------------------------------------------------|
| 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                               |
| tb:      | Normal Boiling Point Temperature                |
| tbrp:    | Boiling point at reduced pressure               |
| tc:      | Critical Temperature                            |
| tf:      | Normal melting (fusion) point                   |
| vc:      | Critical Volume                                 |

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